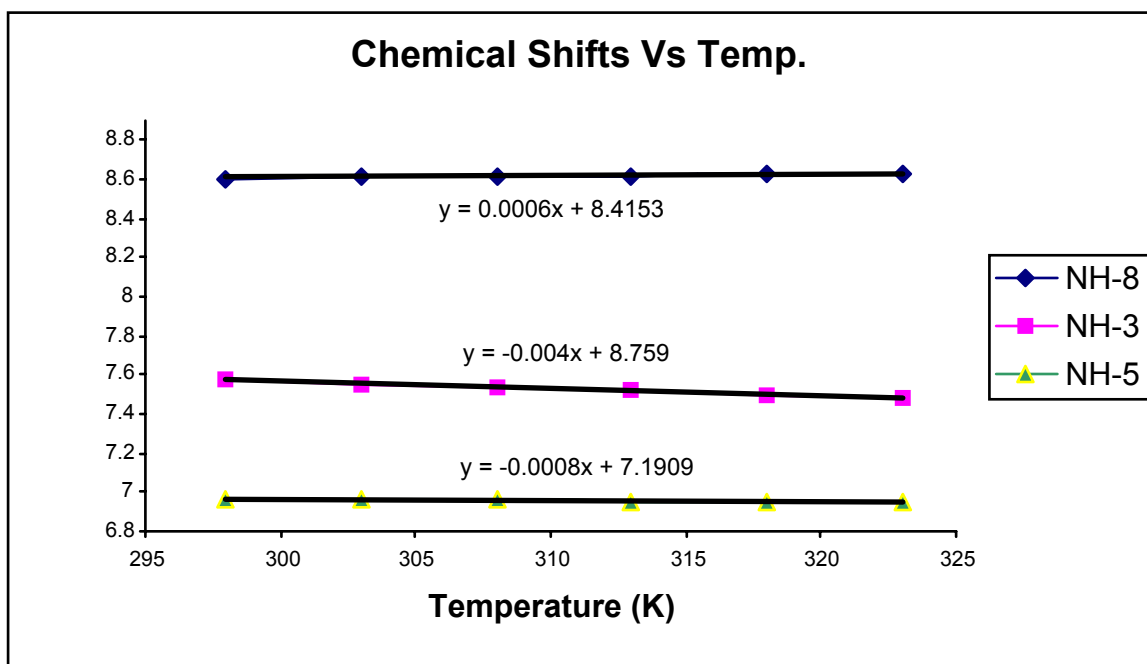


Mass Spectra of Petriellin A



Graphs showing the results of the 1D <sup>1</sup>H experiment with variable temperature. The proton chemical shifts are on the Y-axis and temperatures in Kelvin are on the X-axis.

HEADER	Petriellin A structure from MOLMOL for RasMol								
COMPND	20_accelrys001								
ATOM	1	N	VAL	1	4.088	-2.859	1.592	1.00	0.00
ATOM	2	CA	VAL	1	2.848	-3.297	2.373	1.00	0.00
ATOM	3	HA	VAL	1	2.512	-4.216	1.861	1.00	0.00
ATOM	4	CB	VAL	1	2.983	-3.792	3.869	1.00	0.00
ATOM	5	HB	VAL	1	1.966	-4.115	4.162	1.00	0.00
ATOM	6	QG1	VAL	1	4.078	-5.404	4.084	1.00	0.00
ATOM	7	QG2	VAL	1	3.460	-2.471	5.240	1.00	0.00
ATOM	8	CG1	VAL	1	3.849	-5.059	4.038	1.00	0.00
ATOM	9	1HG1	VAL	1	3.799	-5.459	5.068	1.00	0.00
ATOM	10	2HG1	VAL	1	3.518	-5.873	3.367	1.00	0.00
ATOM	11	3HG1	VAL	1	4.916	-4.881	3.818	1.00	0.00
ATOM	12	CG2	VAL	1	3.367	-2.748	4.944	1.00	0.00
ATOM	13	1HG2	VAL	1	4.434	-2.469	4.921	1.00	0.00
ATOM	14	2HG2	VAL	1	2.781	-1.815	4.837	1.00	0.00
ATOM	15	3HG2	VAL	1	3.166	-3.128	5.963	1.00	0.00
ATOM	16	QQG	VAL	1	3.769	-3.938	4.662	1.00	0.00
ATOM	17	C	VAL	1	1.645	-2.272	2.216	1.00	0.00
ATOM	18	O	VAL	1	1.900	-1.063	2.256	1.00	0.00
ATOM	19	CN	VAL	1	5.246	-2.259	2.319	1.00	0.00
ATOM	20	1H	VAL	1	5.701	-2.983	3.016	1.00	0.00
ATOM	21	2H	VAL	1	6.082	-1.910	1.692	1.00	0.00
ATOM	22	3H	VAL	1	4.923	-1.389	2.921	1.00	0.00
ATOM	23	N	PRO	2	0.340	-2.669	2.045	1.00	0.00
ATOM	24	CD	PRO	2	-0.084	-4.081	1.950	1.00	0.00
ATOM	25	CA	PRO	2	-0.769	-1.707	1.764	1.00	0.00
ATOM	26	HA	PRO	2	-0.494	-1.056	0.910	1.00	0.00
ATOM	27	CB	PRO	2	-1.883	-2.654	1.270	1.00	0.00
ATOM	28	1HB	PRO	2	-2.898	-2.269	1.479	1.00	0.00
ATOM	29	2HB	PRO	2	-1.826	-2.773	0.170	1.00	0.00
ATOM	30	QB	PRO	2	-2.362	-2.521	0.824	1.00	0.00
ATOM	31	CG	PRO	2	-1.607	-3.985	1.968	1.00	0.00
ATOM	32	1HG	PRO	2	-1.979	-3.949	3.012	1.00	0.00
ATOM	33	2HG	PRO	2	-2.096	-4.846	1.478	1.00	0.00
ATOM	34	QG	PRO	2	-2.037	-4.398	2.245	1.00	0.00
ATOM	35	1HD	PRO	2	0.282	-4.711	2.782	1.00	0.00
ATOM	36	2HD	PRO	2	0.271	-4.533	1.000	1.00	0.00
ATOM	37	QD	PRO	2	0.276	-4.622	1.891	1.00	0.00
ATOM	38	C	PRO	2	-1.200	-0.789	2.959	1.00	0.00
ATOM	39	O	PRO	2	-2.089	-1.113	3.752	1.00	0.00
ATOM	40	N	ILE	3	-0.567	0.388	3.048	1.00	0.00
ATOM	41	H	ILE	3	0.313	0.393	2.519	1.00	0.00
ATOM	42	CA	ILE	3	-0.855	1.402	4.114	1.00	0.00
ATOM	43	HA	ILE	3	-0.917	0.810	5.051	1.00	0.00
ATOM	44	CB	ILE	3	0.370	2.360	4.369	1.00	0.00
ATOM	45	HB	ILE	3	0.072	3.029	5.203	1.00	0.00
ATOM	46	QG2	ILE	3	1.929	1.387	5.069	1.00	0.00
ATOM	47	CG2	ILE	3	1.603	1.591	4.918	1.00	0.00
ATOM	48	1HG2	ILE	3	2.419	2.275	5.215	1.00	0.00
ATOM	49	2HG2	ILE	3	1.348	0.997	5.816	1.00	0.00
ATOM	50	3HG2	ILE	3	2.019	0.887	4.174	1.00	0.00
ATOM	51	CG1	ILE	3	0.821	3.275	3.189	1.00	0.00
ATOM	52	1HG1	ILE	3	1.893	3.541	3.285	1.00	0.00
ATOM	53	2HG1	ILE	3	0.775	2.726	2.229	1.00	0.00
ATOM	54	QG1	ILE	3	1.334	3.134	2.757	1.00	0.00
ATOM	55	QD1	ILE	3	-0.142	4.963	3.040	1.00	0.00
ATOM	56	CD1	ILE	3	0.056	4.604	3.074	1.00	0.00
ATOM	57	1HD1	ILE	3	0.188	5.233	3.975	1.00	0.00

ATOM	58	2HD1	ILE	3	0.416	5.195	2.210	1.00	0.00
ATOM	59	3HD1	ILE	3	-1.030	4.462	2.936	1.00	0.00
ATOM	60	C	ILE	3	-2.264	2.127	4.117	1.00	0.00
ATOM	61	O	ILE	3	-2.709	2.352	5.249	1.00	0.00
ATOM	62	N	PIP	4	-3.020	2.505	3.022	1.00	0.00
ATOM	63	CE	PIP	4	-2.526	2.334	1.612	1.00	0.00
ATOM	64	CA	PIP	4	-4.455	2.973	3.227	1.00	0.00
ATOM	65	HA	PIP	4	-4.522	3.477	4.211	1.00	0.00
ATOM	66	CB	PIP	4	-4.841	4.106	2.224	1.00	0.00
ATOM	67	2HB	PIP	4	-4.309	5.030	2.522	1.00	0.00
ATOM	68	QB	PIP	4	-4.309	5.030	2.522	1.00	0.00
ATOM	69	CG	PIP	4	-4.494	3.788	0.754	1.00	0.00
ATOM	70	2HG	PIP	4	-5.107	2.940	0.394	1.00	0.00
ATOM	71	QG	PIP	4	-5.107	2.940	0.394	1.00	0.00
ATOM	72	CD	PIP	4	-2.991	3.455	0.649	1.00	0.00
ATOM	73	2HD	PIP	4	-2.736	3.182	-0.391	1.00	0.00
ATOM	74	QD	PIP	4	-2.736	3.182	-0.391	1.00	0.00
ATOM	75	1HE	PIP	4	-1.424	2.314	1.556	1.00	0.00
ATOM	76	2HE	PIP	4	-2.850	1.348	1.225	1.00	0.00
ATOM	77	QE	PIP	4	-2.138	1.830	1.391	1.00	0.00
ATOM	78	C	PIP	4	-5.547	1.847	3.327	1.00	0.00
ATOM	79	O	PIP	4	-6.426	1.942	4.188	1.00	0.00
ATOM	80	1HB	PIP	4	-5.915	4.357	2.320	1.00	0.00
ATOM	81	1HG	PIP	4	-4.749	4.643	0.099	1.00	0.00
ATOM	82	1HD	PIP	4	-2.402	4.370	0.858	1.00	0.00
ATOM	83	N	ALA	5	-5.543	0.820	2.454	1.00	0.00
ATOM	84	H	ALA	5	-4.710	0.793	1.859	1.00	0.00
ATOM	85	CA	ALA	5	-6.544	-0.282	2.486	1.00	0.00
ATOM	86	HA	ALA	5	-6.856	-0.430	3.537	1.00	0.00
ATOM	87	QB	ALA	5	-8.115	0.297	1.476	1.00	0.00
ATOM	88	CB	ALA	5	-7.784	0.176	1.685	1.00	0.00
ATOM	89	1HB	ALA	5	-7.543	0.377	0.625	1.00	0.00
ATOM	90	2HB	ALA	5	-8.582	-0.588	1.698	1.00	0.00
ATOM	91	3HB	ALA	5	-8.221	1.102	2.105	1.00	0.00
ATOM	92	C	ALA	5	-5.995	-1.657	1.936	1.00	0.00
ATOM	93	O	ALA	5	-5.296	-1.643	0.916	1.00	0.00
ATOM	94	N	PRO	6	-6.314	-2.860	2.512	1.00	0.00
ATOM	95	CD	PRO	6	-7.099	-2.989	3.757	1.00	0.00
ATOM	96	CA	PRO	6	-5.897	-4.171	1.931	1.00	0.00
ATOM	97	HA	PRO	6	-4.804	-4.187	1.807	1.00	0.00
ATOM	98	CB	PRO	6	-6.186	-5.127	3.109	1.00	0.00
ATOM	99	1HB	PRO	6	-6.411	-6.161	2.781	1.00	0.00
ATOM	100	2HB	PRO	6	-5.299	-5.195	3.767	1.00	0.00
ATOM	101	QB	PRO	6	-5.855	-5.678	3.274	1.00	0.00
ATOM	102	CG	PRO	6	-7.351	-4.492	3.873	1.00	0.00
ATOM	103	1HG	PRO	6	-8.311	-4.753	3.383	1.00	0.00
ATOM	104	2HG	PRO	6	-7.417	-4.835	4.923	1.00	0.00
ATOM	105	QG	PRO	6	-7.864	-4.794	4.153	1.00	0.00
ATOM	106	1HD	PRO	6	-8.056	-2.432	3.721	1.00	0.00
ATOM	107	2HD	PRO	6	-6.518	-2.616	4.623	1.00	0.00
ATOM	108	QD	PRO	6	-7.287	-2.524	4.172	1.00	0.00
ATOM	109	C	PRO	6	-6.650	-4.549	0.585	1.00	0.00
ATOM	110	O	PRO	6	-7.867	-4.759	0.683	1.00	0.00
ATOM	111	N	THR	7	-6.056	-4.649	-0.658	1.00	0.00
ATOM	112	CA	THR	7	-4.569	-4.445	-0.881	1.00	0.00
ATOM	113	HA	THR	7	-4.141	-3.881	-0.042	1.00	0.00
ATOM	114	CB	THR	7	-3.779	-5.801	-0.833	1.00	0.00
ATOM	115	HB	THR	7	-3.951	-6.257	0.164	1.00	0.00
ATOM	116	QG2	THR	7	-4.186	-7.151	-2.175	1.00	0.00

ATOM	117	OG1	THR	7	-2.386	-5.548	-0.962	1.00	0.00
ATOM	118	1HG	THR	7	-2.269	-5.238	-1.869	1.00	0.00
ATOM	119	CG2	THR	7	-4.100	-6.863	-1.895	1.00	0.00
ATOM	120	1HG2	THR	7	-3.447	-7.749	-1.791	1.00	0.00
ATOM	121	2HG2	THR	7	-5.142	-7.224	-1.808	1.00	0.00
ATOM	122	3HG2	THR	7	-3.970	-6.480	-2.925	1.00	0.00
ATOM	123	C	THR	7	-4.174	-3.488	-2.063	1.00	0.00
ATOM	124	O	THR	7	-3.590	-3.911	-3.068	1.00	0.00
ATOM	125	CN	THR	7	-6.919	-4.961	-1.841	1.00	0.00
ATOM	126	1H	THR	7	-7.635	-4.141	-2.037	1.00	0.00
ATOM	127	2H	THR	7	-6.342	-5.114	-2.773	1.00	0.00
ATOM	128	3H	THR	7	-7.511	-5.883	-1.681	1.00	0.00
ATOM	129	N	VAL	8	-4.424	-2.179	-1.903	1.00	0.00
ATOM	130	H	VAL	8	-4.857	-1.937	-1.000	1.00	0.00
ATOM	131	CA	VAL	8	-3.876	-1.126	-2.815	1.00	0.00
ATOM	132	HA	VAL	8	-3.853	-1.561	-3.829	1.00	0.00
ATOM	133	CB	VAL	8	-4.824	0.121	-2.946	1.00	0.00
ATOM	134	HB	VAL	8	-4.291	0.853	-3.587	1.00	0.00
ATOM	135	QG1	VAL	8	-6.500	-0.287	-3.872	1.00	0.00
ATOM	136	QG2	VAL	8	-5.253	1.053	-1.278	1.00	0.00
ATOM	137	CG1	VAL	8	-6.148	-0.201	-3.677	1.00	0.00
ATOM	138	1HG1	VAL	8	-6.758	0.706	-3.848	1.00	0.00
ATOM	139	2HG1	VAL	8	-5.971	-0.658	-4.668	1.00	0.00
ATOM	140	3HG1	VAL	8	-6.772	-0.910	-3.101	1.00	0.00
ATOM	141	CG2	VAL	8	-5.165	0.857	-1.630	1.00	0.00
ATOM	142	1HG2	VAL	8	-5.735	0.215	-0.934	1.00	0.00
ATOM	143	2HG2	VAL	8	-4.255	1.176	-1.094	1.00	0.00
ATOM	144	3HG2	VAL	8	-5.768	1.767	-1.805	1.00	0.00
ATOM	145	QQG	VAL	8	-5.877	0.383	-2.575	1.00	0.00
ATOM	146	C	VAL	8	-2.394	-0.736	-2.408	1.00	0.00
ATOM	147	O	VAL	8	-2.213	-0.358	-1.243	1.00	0.00
ATOM	148	N	THR	9	-1.325	-0.807	-3.275	1.00	0.00
ATOM	149	CA	THR	9	0.086	-0.566	-2.767	1.00	0.00
ATOM	150	HA	THR	9	0.066	-0.297	-1.696	1.00	0.00
ATOM	151	CB	THR	9	0.995	-1.846	-2.747	1.00	0.00
ATOM	152	HB	THR	9	1.916	-1.576	-2.194	1.00	0.00
ATOM	153	QG2	THR	9	0.267	-3.413	-1.866	1.00	0.00
ATOM	154	OG1	THR	9	1.377	-2.242	-4.060	1.00	0.00
ATOM	155	1HG	THR	9	1.589	-1.418	-4.520	1.00	0.00
ATOM	156	CG2	THR	9	0.414	-3.084	-2.051	1.00	0.00
ATOM	157	1HG2	THR	9	1.126	-3.929	-2.082	1.00	0.00
ATOM	158	2HG2	THR	9	0.198	-2.884	-0.988	1.00	0.00
ATOM	159	3HG2	THR	9	-0.522	-3.426	-2.528	1.00	0.00
ATOM	160	C	THR	9	0.784	0.665	-3.477	1.00	0.00
ATOM	161	O	THR	9	1.524	0.413	-4.440	1.00	0.00
ATOM	162	CN	THR	9	-1.516	-1.208	-4.700	1.00	0.00
ATOM	163	1H	THR	9	-1.820	-2.271	-4.781	1.00	0.00
ATOM	164	2H	THR	9	-2.280	-0.588	-5.209	1.00	0.00
ATOM	165	3H	THR	9	-0.593	-1.103	-5.301	1.00	0.00
ATOM	166	N	VAL	10	0.594	1.970	-3.084	1.00	0.00
ATOM	167	CA	VAL	10	1.296	3.105	-3.812	1.00	0.00
ATOM	168	HA	VAL	10	1.932	2.712	-4.622	1.00	0.00
ATOM	169	CB	VAL	10	0.295	4.049	-4.585	1.00	0.00
ATOM	170	HB	VAL	10	-0.365	4.528	-3.834	1.00	0.00
ATOM	171	QG1	VAL	10	1.187	5.493	-5.570	1.00	0.00
ATOM	172	QG2	VAL	10	-0.852	3.109	-5.869	1.00	0.00
ATOM	173	CG1	VAL	10	1.000	5.183	-5.366	1.00	0.00
ATOM	174	1HG1	VAL	10	1.686	4.795	-6.142	1.00	0.00
ATOM	175	2HG1	VAL	10	0.277	5.853	-5.871	1.00	0.00

ATOM	176	3HG1	VAL	10	1.599	5.830	-4.697	1.00	0.00
ATOM	177	CG2	VAL	10	-0.607	3.310	-5.603	1.00	0.00
ATOM	178	1HG2	VAL	10	-1.315	3.993	-6.110	1.00	0.00
ATOM	179	2HG2	VAL	10	-0.018	2.800	-6.388	1.00	0.00
ATOM	180	3HG2	VAL	10	-1.223	2.533	-5.110	1.00	0.00
ATOM	181	QOG	VAL	10	0.168	4.301	-5.720	1.00	0.00
ATOM	182	C	VAL	10	2.270	3.843	-2.805	1.00	0.00
ATOM	183	O	VAL	10	1.785	4.777	-2.158	1.00	0.00
ATOM	184	CN	VAL	10	-0.298	2.297	-1.927	1.00	0.00
ATOM	185	1H	VAL	10	-1.331	1.940	-2.089	1.00	0.00
ATOM	186	2H	VAL	10	0.076	1.860	-0.982	1.00	0.00
ATOM	187	3H	VAL	10	-0.374	3.384	-1.743	1.00	0.00
ATOM	188	N	ILE	11	3.579	3.451	-2.588	1.00	0.00
ATOM	189	CA	ILE	11	4.335	3.888	-1.344	1.00	0.00
ATOM	190	HA	ILE	11	5.392	3.660	-1.527	1.00	0.00
ATOM	191	CB	ILE	11	4.446	5.439	-1.044	1.00	0.00
ATOM	192	HB	ILE	11	3.435	5.788	-0.755	1.00	0.00
ATOM	193	QG2	ILE	11	5.626	5.819	0.487	1.00	0.00
ATOM	194	CG2	ILE	11	5.383	5.736	0.160	1.00	0.00
ATOM	195	1HG2	ILE	11	5.059	5.206	1.076	1.00	0.00
ATOM	196	2HG2	ILE	11	6.429	5.442	-0.038	1.00	0.00
ATOM	197	3HG2	ILE	11	5.389	6.809	0.424	1.00	0.00
ATOM	198	CG1	ILE	11	4.911	6.279	-2.273	1.00	0.00
ATOM	199	1HG1	ILE	11	5.978	6.082	-2.494	1.00	0.00
ATOM	200	2HG1	ILE	11	4.372	5.935	-3.176	1.00	0.00
ATOM	201	QG1	ILE	11	5.175	6.009	-2.835	1.00	0.00
ATOM	202	QD1	ILE	11	4.595	8.198	-2.141	1.00	0.00
ATOM	203	CD1	ILE	11	4.663	7.795	-2.165	1.00	0.00
ATOM	204	1HD1	ILE	11	4.940	8.315	-3.099	1.00	0.00
ATOM	205	2HD1	ILE	11	3.596	8.018	-1.972	1.00	0.00
ATOM	206	3HD1	ILE	11	5.250	8.261	-1.352	1.00	0.00
ATOM	207	C	ILE	11	3.837	3.019	-0.110	1.00	0.00
ATOM	208	O	ILE	11	2.753	3.360	0.383	1.00	0.00
ATOM	209	CN	ILE	11	4.201	2.383	-3.421	1.00	0.00
ATOM	210	1H	ILE	11	5.269	2.211	-3.189	1.00	0.00
ATOM	211	2H	ILE	11	3.693	1.411	-3.268	1.00	0.00
ATOM	212	3H	ILE	11	4.162	2.622	-4.500	1.00	0.00
ATOM	213	N	PIPO	12	4.509	1.946	0.443	1.00	0.00
ATOM	214	CE	PIPO	12	4.031	1.353	1.739	1.00	0.00
ATOM	215	CA	PIPO	12	5.912	1.525	0.045	1.00	0.00
ATOM	216	HA	PIPO	12	6.247	1.996	-0.889	1.00	0.00
ATOM	217	CB	PIPO	12	6.858	2.045	1.186	1.00	0.00
ATOM	218	2HB	PIPO	12	6.838	3.151	1.193	1.00	0.00
ATOM	219	QB	PIPO	12	6.838	3.151	1.193	1.00	0.00
ATOM	220	CG	PIPO	12	6.473	1.526	2.602	1.00	0.00
ATOM	221	2HG	PIPO	12	6.684	0.443	2.672	1.00	0.00
ATOM	222	QG	PIPO	12	6.684	0.443	2.672	1.00	0.00
ATOM	223	CD	PIPO	12	4.972	1.792	2.894	1.00	0.00
ATOM	224	2HD	PIPO	12	4.668	1.295	3.833	1.00	0.00
ATOM	225	QD	PIPO	12	4.668	1.295	3.833	1.00	0.00
ATOM	226	1HE	PIPO	12	2.982	1.614	1.980	1.00	0.00
ATOM	227	2HE	PIPO	12	4.008	0.252	1.656	1.00	0.00
ATOM	228	QE	PIPO	12	3.495	0.933	1.818	1.00	0.00
ATOM	229	C	PIPO	12	6.170	0.011	-0.285	1.00	0.00
ATOM	230	O	PIPO	12	7.316	-0.456	-0.299	1.00	0.00
ATOM	231	1HB	PIPO	12	7.912	1.786	0.964	1.00	0.00
ATOM	232	1HG	PIPO	12	7.106	2.002	3.374	1.00	0.00
ATOM	233	1HD	PIPO	12	4.819	2.874	3.076	1.00	0.00
ATOM	234	OL'	PHEO	13	5.011	-0.723	-0.555	1.00	0.00

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ATOM	235	CA	PHEO	13	5.111	-2.184	-0.715	1.00	0.00
ATOM	236	HA	PHEO	13	6.095	-2.570	-0.385	1.00	0.00
ATOM	237	CB	PHEO	13	4.991	-2.561	-2.225	1.00	0.00
ATOM	238	1HB	PHEO	13	5.156	-3.649	-2.338	1.00	0.00
ATOM	239	2HB	PHEO	13	3.941	-2.430	-2.544	1.00	0.00
ATOM	240	QB	PHEO	13	4.549	-3.040	-2.441	1.00	0.00
ATOM	241	QD	PHEO	13	6.023	-1.744	-3.322	1.00	0.00
ATOM	242	QE	PHEO	13	7.496	-0.543	-4.889	1.00	0.00
ATOM	243	QR	PHEO	13	7.055	-0.902	-4.419	1.00	0.00
ATOM	244	CG	PHEO	13	5.918	-1.823	-3.202	1.00	0.00
ATOM	245	CD1	PHEO	13	5.379	-0.938	-4.143	1.00	0.00
ATOM	246	1HD	PHEO	13	4.312	-0.777	-4.191	1.00	0.00
ATOM	247	CE1	PHEO	13	6.213	-0.261	-5.029	1.00	0.00
ATOM	248	1HE	PHEO	13	5.790	0.419	-5.756	1.00	0.00
ATOM	249	CZ	PHEO	13	7.590	-0.463	-4.983	1.00	0.00
ATOM	250	HZ	PHEO	13	8.235	0.062	-5.671	1.00	0.00
ATOM	251	CE2	PHEO	13	8.134	-1.348	-4.057	1.00	0.00
ATOM	252	2HE	PHEO	13	9.203	-1.506	-4.022	1.00	0.00
ATOM	253	CD2	PHEO	13	7.302	-2.031	-3.173	1.00	0.00
ATOM	254	2HD	PHEO	13	7.735	-2.711	-2.454	1.00	0.00
ATOM	255	C	PHEO	13	4.049	-2.887	0.211	1.00	0.00
ATOM	256	O	PHEO	13	3.113	-3.471	-0.344	1.00	0.00

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END

HEADER	20 Petriellin A Structures from MOLMOL								
COMPND	PET001								
MODEL	1								
ATOM	1	N	VALM	1	0.119	3.224	-5.052	1.00	0.00
ATOM	2	QB	VALM	1	1.235	3.028	-6.507	1.00	0.00
ATOM	3	CN	VALM	1	1.014	3.067	-6.220	1.00	0.00
ATOM	4	1HNB	VALM	1	0.820	2.108	-6.702	1.00	0.00
ATOM	5	2HNB	VALM	1	0.831	3.874	-6.930	1.00	0.00
ATOM	6	3HNB	VALM	1	2.053	3.103	-5.890	1.00	0.00
ATOM	7	CA	VALM	1	-0.352	2.078	-4.279	1.00	0.00
ATOM	8	HA	VALM	1	-1.326	2.333	-3.822	1.00	0.00
ATOM	9	CB	VALM	1	-0.532	0.828	-5.229	1.00	0.00
ATOM	10	HB	VALM	1	-1.387	0.238	-4.835	1.00	0.00
ATOM	11	QG1	VALM	1	-0.940	1.208	-7.125	1.00	0.00
ATOM	12	QG2	VALM	1	1.027	-0.362	-5.276	1.00	0.00
ATOM	13	CG1	VALM	1	-0.857	1.134	-6.718	1.00	0.00
ATOM	14	1HG1	VALM	1	-1.323	2.129	-6.853	1.00	0.00
ATOM	15	2HG1	VALM	1	0.045	1.106	-7.359	1.00	0.00
ATOM	16	3HG1	VALM	1	-1.544	0.390	-7.162	1.00	0.00
ATOM	17	CG2	VALM	1	0.695	-0.115	-5.264	1.00	0.00
ATOM	18	1HG2	VALM	1	0.451	-1.135	-4.911	1.00	0.00
ATOM	19	2HG2	VALM	1	1.109	-0.213	-6.284	1.00	0.00
ATOM	20	3HG2	VALM	1	1.522	0.263	-4.633	1.00	0.00
ATOM	21	QQG	VALM	1	0.043	0.423	-6.200	1.00	0.00
ATOM	22	C	VALM	1	0.598	1.762	-3.149	1.00	0.00
ATOM	23	O	VALM	1	1.596	2.460	-2.981	1.00	0.00
ATOM	24	N	PRO	2	0.268	0.693	-2.375	1.00	0.00
ATOM	25	CD	PRO	2	-0.906	-0.159	-2.543	1.00	0.00
ATOM	26	CA	PRO	2	1.105	0.291	-1.257	1.00	0.00
ATOM	27	HA	PRO	2	1.416	1.095	-0.750	1.00	0.00
ATOM	28	CB	PRO	2	0.220	-0.605	-0.405	1.00	0.00
ATOM	29	2HB	PRO	2	-0.157	-0.068	0.465	1.00	0.00
ATOM	30	QB	PRO	2	-0.157	-0.068	0.465	1.00	0.00
ATOM	31	CG	PRO	2	-0.919	-1.046	-1.310	1.00	0.00
ATOM	32	2HG	PRO	2	-1.873	-0.964	-0.790	1.00	0.00
ATOM	33	QG	PRO	2	-1.873	-0.964	-0.790	1.00	0.00
ATOM	34	2HD	PRO	2	-1.818	0.435	-2.614	1.00	0.00
ATOM	35	QD	PRO	2	-1.818	0.435	-2.614	1.00	0.00
ATOM	36	C	PRO	2	2.373	-0.411	-1.746	1.00	0.00
ATOM	37	O	PRO	2	2.406	-0.939	-2.856	1.00	0.00
ATOM	38	N	ILE	3	3.387	-0.393	-0.894	1.00	0.00
ATOM	39	H	ILE	3	3.352	0.039	0.008	1.00	0.00
ATOM	40	CA	ILE	3	4.654	-1.021	-1.225	1.00	0.00
ATOM	41	HA	ILE	3	4.649	-1.221	-2.296	1.00	0.00
ATOM	42	CB	ILE	3	5.815	-0.064	-0.949	1.00	0.00
ATOM	43	HB	ILE	3	6.521	-0.564	-0.285	1.00	0.00
ATOM	44	QG2	ILE	3	6.747	0.351	-2.544	1.00	0.00
ATOM	45	CG2	ILE	3	6.568	0.272	-2.237	1.00	0.00
ATOM	46	1HG2	ILE	3	7.130	1.196	-2.101	1.00	0.00
ATOM	47	2HG2	ILE	3	7.256	-0.539	-2.477	1.00	0.00
ATOM	48	3HG2	ILE	3	5.855	0.397	-3.053	1.00	0.00
ATOM	49	CG1	ILE	3	5.328	1.194	-0.225	1.00	0.00
ATOM	50	2HG1	ILE	3	4.371	1.510	-0.641	1.00	0.00
ATOM	51	QG1	ILE	3	4.371	1.510	-0.641	1.00	0.00
ATOM	52	QD1	ILE	3	5.145	0.880	1.633	1.00	0.00
ATOM	53	CD1	ILE	3	5.180	0.940	1.276	1.00	0.00
ATOM	54	1HD1	ILE	3	4.123	0.950	1.544	1.00	0.00
ATOM	55	2HD1	ILE	3	5.609	-0.031	1.525	1.00	0.00
ATOM	56	3HD1	ILE	3	5.702	1.720	1.831	1.00	0.00



ATOM	57	C	ILE	3	4.768	-2.355	-0.483	1.00	0.00
ATOM	58	O	ILE	3	5.250	-3.375	-0.996	1.00	0.00
ATOM	59	N	PIP	4	4.312	-2.344	0.756	1.00	0.00
ATOM	60	CE	PIP	4	3.747	-1.161	1.367	1.00	0.00
ATOM	61	CA	PIP	4	4.354	-3.518	1.615	1.00	0.00
ATOM	62	HA	PIP	4	5.340	-3.981	1.612	1.00	0.00
ATOM	63	CB	PIP	4	4.019	-3.165	3.076	1.00	0.00
ATOM	64	2HB	PIP	4	4.060	-4.066	3.686	1.00	0.00
ATOM	65	3HB	PIP	4	4.741	-2.440	3.449	1.00	0.00
ATOM	66	QB	PIP	4	4.401	-3.253	3.567	1.00	0.00
ATOM	67	CG	PIP	4	2.603	-2.562	3.146	1.00	0.00
ATOM	68	2HG	PIP	4	2.366	-2.313	4.181	1.00	0.00
ATOM	69	3HG	PIP	4	1.879	-3.287	2.773	1.00	0.00
ATOM	70	QG	PIP	4	2.123	-2.800	3.477	1.00	0.00
ATOM	71	CD	PIP	4	2.587	-1.565	2.296	1.00	0.00
ATOM	72	2HD	PIP	4	2.162	-0.674	2.756	1.00	0.00
ATOM	73	3HD	PIP	4	1.819	-2.077	1.717	1.00	0.00
ATOM	74	QD	PIP	4	1.990	-1.375	2.237	1.00	0.00
ATOM	75	1HE	PIP	4	4.514	-0.649	1.946	1.00	0.00
ATOM	76	2HE	PIP	4	3.373	-0.493	0.591	1.00	0.00
ATOM	77	QE	PIP	4	3.943	-0.571	1.269	1.00	0.00
ATOM	78	C	PIP	4	3.346	-4.589	1.162	1.00	0.00
ATOM	79	O	PIP	4	2.658	-4.288	0.188	1.00	0.00
ATOM	80	N	ALA	5	3.270	-5.743	1.807	1.00	0.00
ATOM	81	H	ALA	5	3.833	-5.979	2.599	1.00	0.00
ATOM	82	CA	ALA	5	2.333	-6.772	1.392	1.00	0.00
ATOM	83	HA	ALA	5	2.751	-7.268	0.515	1.00	0.00
ATOM	84	QB	ALA	5	2.138	-8.047	2.779	1.00	0.00
ATOM	85	CB	ALA	5	2.176	-7.802	2.513	1.00	0.00
ATOM	86	1HB	ALA	5	1.690	-7.335	3.369	1.00	0.00
ATOM	87	2HB	ALA	5	1.567	-8.634	2.158	1.00	0.00
ATOM	88	3HB	ALA	5	3.158	-8.171	2.808	1.00	0.00
ATOM	89	C	ALA	5	1.003	-6.120	1.009	1.00	0.00
ATOM	90	O	ALA	5	0.668	-5.046	1.506	1.00	0.00
ATOM	91	N	PRO	6	0.263	-6.814	0.104	1.00	0.00
ATOM	92	CD	PRO	6	0.628	-8.088	-0.508	1.00	0.00
ATOM	93	CA	PRO	6	-1.023	-6.314	-0.352	1.00	0.00
ATOM	94	HA	PRO	6	-0.974	-5.330	-0.520	1.00	0.00
ATOM	95	CB	PRO	6	-1.317	-7.088	-1.627	1.00	0.00
ATOM	96	2HB	PRO	6	-1.112	-6.482	-2.508	1.00	0.00
ATOM	97	QB	PRO	6	-1.112	-6.482	-2.508	1.00	0.00
ATOM	98	CG	PRO	6	-0.418	-8.314	-1.587	1.00	0.00
ATOM	99	2HG	PRO	6	0.060	-8.468	-2.554	1.00	0.00
ATOM	100	QG	PRO	6	0.060	-8.468	-2.554	1.00	0.00
ATOM	101	2HD	PRO	6	1.632	-8.052	-0.930	1.00	0.00
ATOM	102	QD	PRO	6	1.632	-8.052	-0.930	1.00	0.00
ATOM	103	C	PRO	6	-2.097	-6.502	0.722	1.00	0.00
ATOM	104	O	PRO	6	-2.482	-7.614	1.103	1.00	0.00
ATOM	105	N	THRM	7	-2.589	-5.383	1.220	1.00	0.00
ATOM	106	QB	THRM	7	-3.885	-5.576	2.516	1.00	0.00
ATOM	107	CN	THRM	7	-3.629	-5.538	2.260	1.00	0.00
ATOM	108	1HNB	THRM	7	-3.811	-6.598	2.438	1.00	0.00
ATOM	109	2HNB	THRM	7	-3.292	-5.068	3.185	1.00	0.00
ATOM	110	3HNB	THRM	7	-4.552	-5.063	1.927	1.00	0.00
ATOM	111	CA	THRM	7	-2.135	-4.070	0.770	1.00	0.00
ATOM	112	HA	THRM	7	-1.030	-4.076	0.738	1.00	0.00
ATOM	113	CB	THRM	7	-2.677	-3.763	-0.667	1.00	0.00
ATOM	114	HB	THRM	7	-1.814	-3.720	-1.365	1.00	0.00
ATOM	115	QG2	THRM	7	-3.989	-5.027	-1.391	1.00	0.00

ATOM	116	OG1	THRM	7	-3.341	-2.506	-0.690	1.00	0.00
ATOM	117	1HG	THRM	7	-3.602	-2.358	-1.604	1.00	0.00
ATOM	118	CG2	THRM	7	-3.712	-4.757	-1.235	1.00	0.00
ATOM	119	1HG2	THRM	7	-3.874	-4.616	-2.319	1.00	0.00
ATOM	120	2HG2	THRM	7	-3.397	-5.811	-1.114	1.00	0.00
ATOM	121	3HG2	THRM	7	-4.696	-4.653	-0.740	1.00	0.00
ATOM	122	C	THRM	7	-2.552	-2.991	1.740	1.00	0.00
ATOM	123	O	THRM	7	-3.357	-3.257	2.631	1.00	0.00
ATOM	124	N	VAL	8	-2.006	-1.799	1.554	1.00	0.00
ATOM	125	H	VAL	8	-1.351	-1.592	0.826	1.00	0.00
ATOM	126	CA	VAL	8	-2.330	-0.682	2.425	1.00	0.00
ATOM	127	HA	VAL	8	-3.338	-0.844	2.805	1.00	0.00
ATOM	128	CB	VAL	8	-1.373	-0.653	3.618	1.00	0.00
ATOM	129	HB	VAL	8	-1.156	0.391	3.848	1.00	0.00
ATOM	130	QG1	VAL	8	-2.172	-1.432	5.147	1.00	0.00
ATOM	131	QG2	VAL	8	0.263	-1.508	3.197	1.00	0.00
ATOM	132	CG1	VAL	8	-2.018	-1.282	4.854	1.00	0.00
ATOM	133	1HG1	VAL	8	-2.082	-0.539	5.648	1.00	0.00
ATOM	134	2HG1	VAL	8	-3.019	-1.632	4.603	1.00	0.00
ATOM	135	3HG1	VAL	8	-1.413	-2.124	5.191	1.00	0.00
ATOM	136	CG2	VAL	8	-0.051	-1.344	3.277	1.00	0.00
ATOM	137	1HG2	VAL	8	0.277	-1.032	2.286	1.00	0.00
ATOM	138	2HG2	VAL	8	0.704	-1.068	4.015	1.00	0.00
ATOM	139	3HG2	VAL	8	-0.193	-2.425	3.289	1.00	0.00
ATOM	140	QQG	VAL	8	-0.954	-1.470	4.172	1.00	0.00
ATOM	141	C	VAL	8	-2.312	0.614	1.612	1.00	0.00
ATOM	142	O	VAL	8	-1.920	0.669	0.441	1.00	0.00
ATOM	143	N	THRM	9	-2.749	1.682	2.255	1.00	0.00
ATOM	144	QB	THRM	9	-3.292	1.411	3.996	1.00	0.00
ATOM	145	CN	THRM	9	-3.185	1.464	3.652	1.00	0.00
ATOM	146	1HNB	THRM	9	-3.062	0.412	3.912	1.00	0.00
ATOM	147	2HNB	THRM	9	-2.580	2.077	4.322	1.00	0.00
ATOM	148	3HNB	THRM	9	-4.234	1.743	3.753	1.00	0.00
ATOM	149	CA	THRM	9	-2.798	2.998	1.625	1.00	0.00
ATOM	150	HA	THRM	9	-2.514	2.886	0.562	1.00	0.00
ATOM	151	CB	THRM	9	-4.246	3.589	1.700	1.00	0.00
ATOM	152	HB	THRM	9	-4.253	4.563	1.165	1.00	0.00
ATOM	153	QG2	THRM	9	-5.683	2.475	0.968	1.00	0.00
ATOM	154	OG1	THRM	9	-4.624	3.811	3.052	1.00	0.00
ATOM	155	1HG	THRM	9	-4.436	4.737	3.234	1.00	0.00
ATOM	156	CG2	THRM	9	-5.376	2.710	1.122	1.00	0.00
ATOM	157	1HG2	THRM	9	-6.100	2.402	1.896	1.00	0.00
ATOM	158	2HG2	THRM	9	-5.967	3.236	0.350	1.00	0.00
ATOM	159	3HG2	THRM	9	-4.981	1.788	0.657	1.00	0.00
ATOM	160	C	THRM	9	-1.803	3.939	2.260	1.00	0.00
ATOM	161	O	THRM	9	-2.152	4.869	2.959	1.00	0.00
ATOM	162	N	VALM	10	-0.531	3.691	2.011	1.00	0.00
ATOM	163	QB	VALM	10	-0.187	2.237	0.930	1.00	0.00
ATOM	164	CN	VALM	10	-0.255	2.524	1.144	1.00	0.00
ATOM	165	1HNB	VALM	10	-0.440	1.605	1.700	1.00	0.00
ATOM	166	2HNB	VALM	10	-0.906	2.557	0.271	1.00	0.00
ATOM	167	3HNB	VALM	10	0.786	2.549	0.820	1.00	0.00
ATOM	168	CA	VALM	10	0.541	4.518	2.559	1.00	0.00
ATOM	169	HA	VALM	10	0.188	5.564	2.619	1.00	0.00
ATOM	170	CB	VALM	10	0.923	4.011	4.006	1.00	0.00
ATOM	171	HB	VALM	10	1.835	3.386	3.904	1.00	0.00
ATOM	172	QG1	VALM	10	1.356	5.407	5.336	1.00	0.00
ATOM	173	QG2	VALM	10	-0.448	2.887	4.845	1.00	0.00
ATOM	174	CG1	VALM	10	1.256	5.108	5.055	1.00	0.00

ATOM	175	1HG1	VALM	10	0.398	5.338	5.713	1.00	0.00
ATOM	176	2HG1	VALM	10	2.102	4.822	5.708	1.00	0.00
ATOM	177	3HG1	VALM	10	1.570	6.060	4.586	1.00	0.00
ATOM	178	CG2	VALM	10	-0.162	3.129	4.669	1.00	0.00
ATOM	179	1HG2	VALM	10	-1.055	3.711	4.963	1.00	0.00
ATOM	180	2HG2	VALM	10	-0.506	2.324	3.994	1.00	0.00
ATOM	181	3HG2	VALM	10	0.217	2.625	5.578	1.00	0.00
ATOM	182	QOG	VALM	10	0.454	4.147	5.090	1.00	0.00
ATOM	183	C	VALM	10	1.747	4.511	1.651	1.00	0.00
ATOM	184	O	VALM	10	2.835	4.043	2.010	1.00	0.00
ATOM	185	N	ILEM	11	1.572	5.033	0.452	1.00	0.00
ATOM	186	QB	ILEM	11	-0.116	5.681	0.091	1.00	0.00
ATOM	187	CN	ILEM	11	0.217	5.554	0.162	1.00	0.00
ATOM	188	1HNB	ILEM	11	-0.423	5.405	1.032	1.00	0.00
ATOM	189	2HNB	ILEM	11	0.277	6.618	-0.067	1.00	0.00
ATOM	190	3HNB	ILEM	11	-0.202	5.021	-0.691	1.00	0.00
ATOM	191	CA	ILEM	11	2.650	5.094	-0.531	1.00	0.00
ATOM	192	HA	ILEM	11	2.265	5.632	-1.417	1.00	0.00
ATOM	193	CB	ILEM	11	3.898	5.890	0.031	1.00	0.00
ATOM	194	HB	ILEM	11	3.696	6.077	1.107	1.00	0.00
ATOM	195	QG2	ILEM	11	5.584	4.850	-0.086	1.00	0.00
ATOM	196	CG2	ILEM	11	5.226	5.078	-0.065	1.00	0.00
ATOM	197	1HG2	ILEM	11	5.349	4.369	0.774	1.00	0.00
ATOM	198	2HG2	ILEM	11	5.286	4.445	-0.968	1.00	0.00
ATOM	199	3HG2	ILEM	11	6.117	5.734	-0.065	1.00	0.00
ATOM	200	CG1	ILEM	11	4.133	7.285	-0.631	1.00	0.00
ATOM	201	2HG1	ILEM	11	3.883	7.230	-1.708	1.00	0.00
ATOM	202	QG1	ILEM	11	3.883	7.230	-1.708	1.00	0.00
ATOM	203	QD1	ILEM	11	3.069	8.756	0.091	1.00	0.00
ATOM	204	CD1	ILEM	11	3.298	8.450	-0.063	1.00	0.00
ATOM	205	1HD1	ILEM	11	2.291	8.108	0.242	1.00	0.00
ATOM	206	2HD1	ILEM	11	3.772	8.899	0.829	1.00	0.00
ATOM	207	3HD1	ILEM	11	3.145	9.260	-0.799	1.00	0.00
ATOM	208	C	ILEM	11	3.032	3.711	-1.002	1.00	0.00
ATOM	209	O	ILEM	11	2.757	2.695	-0.347	1.00	0.00
ATOM	210	N	PIPO	12	3.676	3.649	-2.152	1.00	0.00
ATOM	211	CE	PIPO	12	4.109	2.398	-2.735	1.00	0.00
ATOM	212	CA	PIPO	12	4.019	4.835	-2.922	1.00	0.00
ATOM	213	HA	PIPO	12	4.494	5.594	-2.299	1.00	0.00
ATOM	214	CB	PIPO	12	4.996	4.508	-4.066	1.00	0.00
ATOM	215	2HB	PIPO	12	5.229	5.418	-4.618	1.00	0.00
ATOM	216	3HB	PIPO	12	5.914	4.089	-3.652	1.00	0.00
ATOM	217	QB	PIPO	12	5.572	4.753	-4.135	1.00	0.00
ATOM	218	CG	PIPO	12	4.349	3.483	-5.016	1.00	0.00
ATOM	219	2HG	PIPO	12	5.041	3.251	-5.826	1.00	0.00
ATOM	220	3HG	PIPO	12	3.432	3.900	-5.432	1.00	0.00
ATOM	221	QG	PIPO	12	4.236	3.576	-5.629	1.00	0.00
ATOM	222	CD	PIPO	12	3.981	2.473	-4.267	1.00	0.00
ATOM	223	2HD	PIPO	12	4.306	1.529	-4.707	1.00	0.00
ATOM	224	3HD	PIPO	12	2.941	2.658	-4.538	1.00	0.00
ATOM	225	QD	PIPO	12	3.624	2.093	-4.622	1.00	0.00
ATOM	226	1HE	PIPO	12	5.148	2.211	-2.467	1.00	0.00
ATOM	227	2HE	PIPO	12	3.486	1.586	-2.358	1.00	0.00
ATOM	228	QE	PIPO	12	4.317	1.899	-2.413	1.00	0.00
ATOM	229	C	PIPO	12	2.775	5.479	-3.555	1.00	0.00
ATOM	230	O	PIPO	12	2.616	6.698	-3.412	1.00	0.00
ATOM	231	O1'	PHEO	13	1.921	4.738	-4.236	1.00	0.00
ATOM	232	CA	PHEO	13	0.525	5.128	-4.409	1.00	0.00
ATOM	233	HA	PHEO	13	0.462	6.048	-5.021	1.00	0.00

ATOM	234	CB	PHEO	13	-0.109	5.376	-3.008	1.00	0.00
ATOM	235	2HB	PHEO	13	0.674	5.732	-2.308	1.00	0.00
ATOM	236	QB	PHEO	13	0.674	5.732	-2.308	1.00	0.00
ATOM	237	QD	PHEO	13	-1.419	6.465	-2.919	1.00	0.00
ATOM	238	QE	PHEO	13	-3.297	8.043	-2.709	1.00	0.00
ATOM	239	QR	PHEO	13	-2.735	7.571	-2.772	1.00	0.00
ATOM	240	CG	PHEO	13	-1.289	6.358	-2.955	1.00	0.00
ATOM	241	CD1	PHEO	13	-1.048	7.718	-2.730	1.00	0.00
ATOM	242	1HD	PHEO	13	-0.034	8.078	-2.613	1.00	0.00
ATOM	243	CE1	PHEO	13	-2.109	8.607	-2.600	1.00	0.00
ATOM	244	1HE	PHEO	13	-1.912	9.651	-2.396	1.00	0.00
ATOM	245	CZ	PHEO	13	-3.419	8.146	-2.709	1.00	0.00
ATOM	246	HZ	PHEO	13	-4.241	8.837	-2.602	1.00	0.00
ATOM	247	CE2	PHEO	13	-3.667	6.794	-2.944	1.00	0.00
ATOM	248	2HE	PHEO	13	-4.683	6.436	-3.022	1.00	0.00
ATOM	249	CD2	PHEO	13	-2.605	5.902	-3.064	1.00	0.00
ATOM	250	2HD	PHEO	13	-2.804	4.852	-3.226	1.00	0.00
ATOM	251	C	PHEO	13	-0.262	4.035	-5.092	1.00	0.00
ATOM	252	O	PHEO	13	-1.372	4.258	-5.652	1.00	0.00
<u>TER</u>									
<u>ENDMDL</u>									
<u>MODEL</u>									
	2								
ATOM	1	N	VALM	1	0.148	3.197	-5.088	1.00	0.00
ATOM	2	QB	VALM	1	1.299	2.989	-6.513	1.00	0.00
ATOM	3	CN	VALM	1	1.072	3.030	-6.232	1.00	0.00
ATOM	4	1HNB	VALM	1	0.924	2.046	-6.678	1.00	0.00
ATOM	5	2HNB	VALM	1	0.871	3.800	-6.976	1.00	0.00
ATOM	6	3HNB	VALM	1	2.101	3.120	-5.885	1.00	0.00
ATOM	7	CA	VALM	1	-0.327	2.059	-4.305	1.00	0.00
ATOM	8	HA	VALM	1	-1.301	2.320	-3.852	1.00	0.00
ATOM	9	CB	VALM	1	-0.507	0.801	-5.244	1.00	0.00
ATOM	10	HB	VALM	1	-1.359	0.212	-4.842	1.00	0.00
ATOM	11	QG1	VALM	1	-0.939	1.174	-7.136	1.00	0.00
ATOM	12	QG2	VALM	1	1.050	-0.392	-5.278	1.00	0.00
ATOM	13	CG1	VALM	1	-0.839	1.094	-6.734	1.00	0.00
ATOM	14	1HG1	VALM	1	0.053	1.030	-7.386	1.00	0.00
ATOM	15	2HG1	VALM	1	-1.593	0.393	-7.142	1.00	0.00
ATOM	16	3HG1	VALM	1	-1.278	2.099	-6.879	1.00	0.00
ATOM	17	CG2	VALM	1	0.722	-0.139	-5.276	1.00	0.00
ATOM	18	1HG2	VALM	1	1.132	-0.258	-6.296	1.00	0.00
ATOM	19	2HG2	VALM	1	1.542	0.234	-4.637	1.00	0.00
ATOM	20	3HG2	VALM	1	0.476	-1.151	-4.899	1.00	0.00
ATOM	21	QQG	VALM	1	0.055	0.391	-6.207	1.00	0.00
ATOM	22	C	VALM	1	0.619	1.751	-3.169	1.00	0.00
ATOM	23	O	VALM	1	1.617	2.451	-3.005	1.00	0.00
ATOM	24	N	PRO	2	0.287	0.688	-2.389	1.00	0.00
ATOM	25	CD	PRO	2	-0.887	-0.163	-2.553	1.00	0.00
ATOM	26	CA	PRO	2	1.120	0.295	-1.266	1.00	0.00
ATOM	27	HA	PRO	2	1.430	1.103	-0.763	1.00	0.00
ATOM	28	CB	PRO	2	0.233	-0.595	-0.409	1.00	0.00
ATOM	29	2HB	PRO	2	-0.147	-0.051	0.456	1.00	0.00
ATOM	30	QB	PRO	2	-0.147	-0.051	0.456	1.00	0.00
ATOM	31	CG	PRO	2	-0.904	-1.043	-1.313	1.00	0.00
ATOM	32	2HG	PRO	2	-1.859	-0.956	-0.796	1.00	0.00
ATOM	33	QG	PRO	2	-1.859	-0.956	-0.796	1.00	0.00
ATOM	34	2HD	PRO	2	-1.799	0.429	-2.631	1.00	0.00
ATOM	35	QD	PRO	2	-1.799	0.429	-2.631	1.00	0.00
ATOM	36	C	PRO	2	2.390	-0.411	-1.745	1.00	0.00
ATOM	37	O	PRO	2	2.422	-0.957	-2.846	1.00	0.00

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ATOM	38	N	ILE	3	3.405	-0.377	-0.895	1.00	0.00
ATOM	39	H	ILE	3	3.371	0.069	0.000	1.00	0.00
ATOM	40	CA	ILE	3	4.673	-1.007	-1.218	1.00	0.00
ATOM	41	HA	ILE	3	4.675	-1.207	-2.289	1.00	0.00
ATOM	42	CB	ILE	3	5.834	-0.051	-0.934	1.00	0.00
ATOM	43	HB	ILE	3	6.536	-0.554	-0.269	1.00	0.00
ATOM	44	QG2	ILE	3	6.772	0.368	-2.524	1.00	0.00
ATOM	45	CG2	ILE	3	6.592	0.288	-2.219	1.00	0.00
ATOM	46	1HG2	ILE	3	7.296	-0.513	-2.447	1.00	0.00
ATOM	47	2HG2	ILE	3	5.884	0.395	-3.041	1.00	0.00
ATOM	48	3HG2	ILE	3	7.137	1.223	-2.084	1.00	0.00
ATOM	49	CG1	ILE	3	5.345	1.204	-0.209	1.00	0.00
ATOM	50	2HG1	ILE	3	4.393	1.524	-0.630	1.00	0.00
ATOM	51	QG1	ILE	3	4.393	1.524	-0.630	1.00	0.00
ATOM	52	QD1	ILE	3	5.148	0.884	1.646	1.00	0.00
ATOM	53	CD1	ILE	3	5.186	0.946	1.290	1.00	0.00
ATOM	54	1HD1	ILE	3	5.712	1.719	1.850	1.00	0.00
ATOM	55	2HD1	ILE	3	4.129	0.963	1.552	1.00	0.00
ATOM	56	3HD1	ILE	3	5.605	-0.031	1.536	1.00	0.00
ATOM	57	C	ILE	3	4.780	-2.340	-0.475	1.00	0.00
ATOM	58	O	ILE	3	5.267	-3.361	-0.986	1.00	0.00
ATOM	59	N	PIP	4	4.313	-2.331	0.759	1.00	0.00
ATOM	60	CE	PIP	4	3.742	-1.147	1.366	1.00	0.00
ATOM	61	CA	PIP	4	4.347	-3.504	1.618	1.00	0.00
ATOM	62	HA	PIP	4	5.334	-3.968	1.624	1.00	0.00
ATOM	63	CB	PIP	4	4.000	-3.152	3.075	1.00	0.00
ATOM	64	2HB	PIP	4	4.035	-4.054	3.687	1.00	0.00
ATOM	65	3HB	PIP	4	4.718	-2.426	3.456	1.00	0.00
ATOM	66	QB	PIP	4	4.377	-3.240	3.572	1.00	0.00
ATOM	67	CG	PIP	4	2.583	-2.550	3.134	1.00	0.00
ATOM	68	2HG	PIP	4	2.337	-2.300	4.167	1.00	0.00
ATOM	69	3HG	PIP	4	1.863	-3.275	2.755	1.00	0.00
ATOM	70	QG	PIP	4	2.100	-2.788	3.461	1.00	0.00
ATOM	71	CD	PIP	4	2.575	-1.553	2.284	1.00	0.00
ATOM	72	2HD	PIP	4	2.146	-0.661	2.742	1.00	0.00
ATOM	73	3HD	PIP	4	1.812	-2.064	1.699	1.00	0.00
ATOM	74	QD	PIP	4	1.979	-1.363	2.220	1.00	0.00
ATOM	75	1HE	PIP	4	4.505	-0.635	1.952	1.00	0.00
ATOM	76	2HE	PIP	4	3.376	-0.480	0.585	1.00	0.00
ATOM	77	QE	PIP	4	3.940	-0.558	1.269	1.00	0.00
ATOM	78	C	PIP	4	3.345	-4.575	1.156	1.00	0.00
ATOM	79	O	PIP	4	2.676	-4.280	0.167	1.00	0.00
ATOM	80	N	ALA	5	3.253	-5.723	1.809	1.00	0.00
ATOM	81	H	ALA	5	3.800	-5.955	2.613	1.00	0.00
ATOM	82	CA	ALA	5	2.319	-6.753	1.386	1.00	0.00
ATOM	83	HA	ALA	5	2.742	-7.244	0.509	1.00	0.00
ATOM	84	QB	ALA	5	2.120	-8.033	2.766	1.00	0.00
ATOM	85	CB	ALA	5	2.158	-7.788	2.501	1.00	0.00
ATOM	86	1HB	ALA	5	1.913	-7.281	3.435	1.00	0.00
ATOM	87	2HB	ALA	5	1.356	-8.479	2.243	1.00	0.00
ATOM	88	3HB	ALA	5	3.090	-8.340	2.621	1.00	0.00
ATOM	89	C	ALA	5	0.989	-6.101	0.999	1.00	0.00
ATOM	90	O	ALA	5	0.649	-5.032	1.501	1.00	0.00
ATOM	91	N	PRO	6	0.255	-6.792	0.085	1.00	0.00
ATOM	92	CD	PRO	6	0.628	-8.062	-0.531	1.00	0.00
ATOM	93	CA	PRO	6	-1.028	-6.292	-0.375	1.00	0.00
ATOM	94	HA	PRO	6	-0.980	-5.307	-0.536	1.00	0.00
ATOM	95	CB	PRO	6	-1.314	-7.059	-1.656	1.00	0.00
ATOM	96	2HB	PRO	6	-1.105	-6.445	-2.533	1.00	0.00

ATOM	97	QB	PRO	6	-1.105	-6.445	-2.533	1.00	0.00
ATOM	98	CG	PRO	6	-0.412	-8.282	-1.619	1.00	0.00
ATOM	99	2HG	PRO	6	0.073	-8.429	-2.585	1.00	0.00
ATOM	100	QG	PRO	6	0.073	-8.429	-2.585	1.00	0.00
ATOM	101	2HD	PRO	6	1.635	-8.020	-0.949	1.00	0.00
ATOM	102	QD	PRO	6	1.635	-8.020	-0.949	1.00	0.00
ATOM	103	C	PRO	6	-2.108	-6.489	0.692	1.00	0.00
ATOM	104	O	PRO	6	-2.494	-7.605	1.062	1.00	0.00
ATOM	105	N	THRM	7	-2.605	-5.374	1.195	1.00	0.00
ATOM	106	QB	THRM	7	-3.907	-5.579	2.483	1.00	0.00
ATOM	107	CN	THRM	7	-3.650	-5.539	2.230	1.00	0.00
ATOM	108	1HNB	THRM	7	-3.831	-6.600	2.398	1.00	0.00
ATOM	109	2HNB	THRM	7	-3.319	-5.075	3.158	1.00	0.00
ATOM	110	3HNB	THRM	7	-4.572	-5.063	1.894	1.00	0.00
ATOM	111	CA	THRM	7	-2.149	-4.057	0.758	1.00	0.00
ATOM	112	HA	THRM	7	-1.044	-4.065	0.722	1.00	0.00
ATOM	113	CB	THRM	7	-2.696	-3.735	-0.674	1.00	0.00
ATOM	114	HB	THRM	7	-1.835	-3.685	-1.373	1.00	0.00
ATOM	115	QG2	THRM	7	-4.016	-4.986	-1.406	1.00	0.00
ATOM	116	OG1	THRM	7	-3.360	-2.477	-0.681	1.00	0.00
ATOM	117	1HG	THRM	7	-3.515	-2.262	-1.606	1.00	0.00
ATOM	118	CG2	THRM	7	-3.734	-4.723	-1.250	1.00	0.00
ATOM	119	1HG2	THRM	7	-4.714	-4.636	-0.748	1.00	0.00
ATOM	120	2HG2	THRM	7	-3.932	-4.550	-2.324	1.00	0.00
ATOM	121	3HG2	THRM	7	-3.402	-5.773	-1.145	1.00	0.00
ATOM	122	C	THRM	7	-2.563	-2.989	1.740	1.00	0.00
ATOM	123	O	THRM	7	-3.362	-3.263	2.634	1.00	0.00
ATOM	124	N	VAL	8	-2.017	-1.795	1.563	1.00	0.00
ATOM	125	H	VAL	8	-1.366	-1.579	0.834	1.00	0.00
ATOM	126	CA	VAL	8	-2.337	-0.686	2.447	1.00	0.00
ATOM	127	HA	VAL	8	-3.343	-0.852	2.832	1.00	0.00
ATOM	128	CB	VAL	8	-1.373	-0.668	3.635	1.00	0.00
ATOM	129	HB	VAL	8	-1.149	0.374	3.868	1.00	0.00
ATOM	130	QG1	VAL	8	-2.167	-1.450	5.165	1.00	0.00
ATOM	131	QG2	VAL	8	0.256	-1.530	3.200	1.00	0.00
ATOM	132	CG1	VAL	8	-2.015	-1.299	4.871	1.00	0.00
ATOM	133	1HG1	VAL	8	-1.423	-2.158	5.190	1.00	0.00
ATOM	134	2HG1	VAL	8	-2.053	-0.566	5.676	1.00	0.00
ATOM	135	3HG1	VAL	8	-3.026	-1.625	4.629	1.00	0.00
ATOM	136	CG2	VAL	8	-0.057	-1.365	3.283	1.00	0.00
ATOM	137	1HG2	VAL	8	0.265	-1.054	2.289	1.00	0.00
ATOM	138	2HG2	VAL	8	0.705	-1.091	4.013	1.00	0.00
ATOM	139	3HG2	VAL	8	-0.203	-2.445	3.298	1.00	0.00
ATOM	140	QQG	VAL	8	-0.956	-1.490	4.183	1.00	0.00
ATOM	141	C	VAL	8	-2.325	0.617	1.647	1.00	0.00
ATOM	142	O	VAL	8	-1.948	0.683	0.470	1.00	0.00
ATOM	143	N	THRM	9	-2.747	1.681	2.305	1.00	0.00
ATOM	144	QB	THRM	9	-3.269	1.395	4.051	1.00	0.00
ATOM	145	CN	THRM	9	-3.166	1.451	3.706	1.00	0.00
ATOM	146	1HNB	THRM	9	-3.044	0.396	3.955	1.00	0.00
ATOM	147	2HNB	THRM	9	-2.551	2.055	4.374	1.00	0.00
ATOM	148	3HNB	THRM	9	-4.213	1.733	3.824	1.00	0.00
ATOM	149	CA	THRM	9	-2.800	3.003	1.689	1.00	0.00
ATOM	150	HA	THRM	9	-2.538	2.899	0.620	1.00	0.00
ATOM	151	CB	THRM	9	-4.241	3.604	1.798	1.00	0.00
ATOM	152	HB	THRM	9	-4.247	4.593	1.291	1.00	0.00
ATOM	153	QG2	THRM	9	-5.696	2.523	1.050	1.00	0.00
ATOM	154	OG1	THRM	9	-4.602	3.792	3.161	1.00	0.00
ATOM	155	1HG	THRM	9	-4.652	4.743	3.295	1.00	0.00

ATOM	156	CG2	THRM	9	-5.386	2.750	1.211	1.00	0.00
ATOM	157	1HG2	THRM	9	-6.368	3.248	1.305	1.00	0.00
ATOM	158	2HG2	THRM	9	-5.254	2.552	0.131	1.00	0.00
ATOM	159	3HG2	THRM	9	-5.466	1.768	1.714	1.00	0.00
ATOM	160	C	THRM	9	-1.785	3.931	2.313	1.00	0.00
ATOM	161	O	THRM	9	-2.115	4.861	3.022	1.00	0.00
ATOM	162	N	VALM	10	-0.520	3.672	2.043	1.00	0.00
ATOM	163	QB	VALM	10	-0.208	2.221	0.949	1.00	0.00
ATOM	164	CN	VALM	10	-0.270	2.508	1.165	1.00	0.00
ATOM	165	1HNB	VALM	10	0.766	2.524	0.825	1.00	0.00
ATOM	166	2HNB	VALM	10	-0.455	1.587	1.718	1.00	0.00
ATOM	167	3HNB	VALM	10	-0.935	2.552	0.302	1.00	0.00
ATOM	168	CA	VALM	10	0.567	4.486	2.577	1.00	0.00
ATOM	169	HA	VALM	10	0.222	5.533	2.658	1.00	0.00
ATOM	170	CB	VALM	10	0.977	3.959	4.010	1.00	0.00
ATOM	171	HB	VALM	10	1.918	3.380	3.889	1.00	0.00
ATOM	172	QG1	VALM	10	1.348	5.330	5.384	1.00	0.00
ATOM	173	QG2	VALM	10	-0.341	2.759	4.828	1.00	0.00
ATOM	174	CG1	VALM	10	1.262	5.042	5.088	1.00	0.00
ATOM	175	1HG1	VALM	10	0.533	5.873	5.055	1.00	0.00
ATOM	176	2HG1	VALM	10	1.241	4.628	6.115	1.00	0.00
ATOM	177	3HG1	VALM	10	2.269	5.488	4.982	1.00	0.00
ATOM	178	CG2	VALM	10	-0.064	3.009	4.651	1.00	0.00
ATOM	179	1HG2	VALM	10	-0.527	2.332	3.909	1.00	0.00
ATOM	180	2HG2	VALM	10	0.387	2.375	5.436	1.00	0.00
ATOM	181	3HG2	VALM	10	-0.883	3.569	5.141	1.00	0.00
ATOM	182	QQG	VALM	10	0.503	4.044	5.106	1.00	0.00
ATOM	183	C	VALM	10	1.755	4.483	1.644	1.00	0.00
ATOM	184	O	VALM	10	2.840	3.985	1.966	1.00	0.00
ATOM	185	N	ILEM	11	1.564	5.043	0.465	1.00	0.00
ATOM	186	QB	ILEM	11	-0.118	5.733	0.159	1.00	0.00
ATOM	187	CN	ILEM	11	0.213	5.597	0.220	1.00	0.00
ATOM	188	1HNB	ILEM	11	-0.410	5.436	1.098	1.00	0.00
ATOM	189	2HNB	ILEM	11	0.290	6.666	0.020	1.00	0.00
ATOM	190	3HNB	ILEM	11	-0.233	5.099	-0.640	1.00	0.00
ATOM	191	CA	ILEM	11	2.623	5.112	-0.539	1.00	0.00
ATOM	192	HA	ILEM	11	2.211	5.630	-1.424	1.00	0.00
ATOM	193	CB	ILEM	11	3.864	5.941	-0.010	1.00	0.00
ATOM	194	HB	ILEM	11	3.672	6.150	1.063	1.00	0.00
ATOM	195	QG2	ILEM	11	5.565	4.924	-0.122	1.00	0.00
ATOM	196	CG2	ILEM	11	5.204	5.147	-0.102	1.00	0.00
ATOM	197	1HG2	ILEM	11	5.347	4.462	0.752	1.00	0.00
ATOM	198	2HG2	ILEM	11	5.263	4.493	-0.989	1.00	0.00
ATOM	199	3HG2	ILEM	11	6.084	5.818	-0.129	1.00	0.00
ATOM	200	CG1	ILEM	11	4.070	7.323	-0.709	1.00	0.00
ATOM	201	2HG1	ILEM	11	3.805	7.239	-1.781	1.00	0.00
ATOM	202	QG1	ILEM	11	3.805	7.239	-1.781	1.00	0.00
ATOM	203	QD1	ILEM	11	3.006	8.805	-0.011	1.00	0.00
ATOM	204	CD1	ILEM	11	3.226	8.490	-0.156	1.00	0.00
ATOM	205	1HD1	ILEM	11	3.800	9.435	-0.159	1.00	0.00
ATOM	206	2HD1	ILEM	11	2.316	8.661	-0.761	1.00	0.00
ATOM	207	3HD1	ILEM	11	2.902	8.320	0.887	1.00	0.00
ATOM	208	C	ILEM	11	3.024	3.731	-0.999	1.00	0.00
ATOM	209	O	ILEM	11	2.762	2.717	-0.336	1.00	0.00
ATOM	210	N	PIPO	12	3.669	3.669	-2.148	1.00	0.00
ATOM	211	CE	PIPO	12	4.120	2.419	-2.721	1.00	0.00
ATOM	212	CA	PIPO	12	3.996	4.854	-2.926	1.00	0.00
ATOM	213	HA	PIPO	12	4.460	5.624	-2.311	1.00	0.00
ATOM	214	CB	PIPO	12	4.979	4.531	-4.068	1.00	0.00

ATOM	215	2HB	PIPO	12	5.198	5.440	-4.627	1.00	0.00
ATOM	216	3HB	PIPO	12	5.901	4.128	-3.651	1.00	0.00
ATOM	217	QB	PIPO	12	5.550	4.784	-4.139	1.00	0.00
ATOM	218	CG	PIPO	12	4.346	3.490	-5.011	1.00	0.00
ATOM	219	2HG	PIPO	12	5.041	3.262	-5.819	1.00	0.00
ATOM	220	3HG	PIPO	12	3.422	3.891	-5.429	1.00	0.00
ATOM	221	QG	PIPO	12	4.232	3.576	-5.624	1.00	0.00
ATOM	222	CD	PIPO	12	3.991	2.481	-4.254	1.00	0.00
ATOM	223	2HD	PIPO	12	4.330	1.539	-4.686	1.00	0.00
ATOM	224	3HD	PIPO	12	2.948	2.649	-4.525	1.00	0.00
ATOM	225	QD	PIPO	12	3.639	2.094	-4.606	1.00	0.00
ATOM	226	1HE	PIPO	12	5.162	2.250	-2.451	1.00	0.00
ATOM	227	2HE	PIPO	12	3.509	1.602	-2.337	1.00	0.00
ATOM	228	QE	PIPO	12	4.335	1.926	-2.394	1.00	0.00
ATOM	229	C	PIPO	12	2.744	5.476	-3.566	1.00	0.00
ATOM	230	O	PIPO	12	2.547	6.686	-3.400	1.00	0.00
ATOM	231	O1'	PHEO	13	1.922	4.725	-4.274	1.00	0.00
ATOM	232	CA	PHEO	13	0.499	5.030	-4.389	1.00	0.00
ATOM	233	HA	PHEO	13	0.359	6.003	-4.897	1.00	0.00
ATOM	234	CB	PHEO	13	-0.124	5.082	-2.961	1.00	0.00
ATOM	235	2HB	PHEO	13	0.654	4.837	-2.212	1.00	0.00
ATOM	236	QB	PHEO	13	0.654	4.837	-2.212	1.00	0.00
ATOM	237	QD	PHEO	13	-0.843	6.555	-2.486	1.00	0.00
ATOM	238	QE	PHEO	13	-1.813	8.696	-1.752	1.00	0.00
ATOM	239	QR	PHEO	13	-1.522	8.055	-1.971	1.00	0.00
ATOM	240	CG	PHEO	13	-0.789	6.406	-2.552	1.00	0.00
ATOM	241	CD1	PHEO	13	-0.269	7.616	-3.023	1.00	0.00
ATOM	242	1HD	PHEO	13	0.587	7.619	-3.686	1.00	0.00
ATOM	243	CE1	PHEO	13	-0.809	8.825	-2.599	1.00	0.00
ATOM	244	1HE	PHEO	13	-0.380	9.755	-2.945	1.00	0.00
ATOM	245	CZ	PHEO	13	-1.884	8.832	-1.714	1.00	0.00
ATOM	246	HZ	PHEO	13	-2.299	9.773	-1.382	1.00	0.00
ATOM	247	CE2	PHEO	13	-2.416	7.631	-1.250	1.00	0.00
ATOM	248	2HE	PHEO	13	-3.247	7.637	-0.559	1.00	0.00
ATOM	249	CD2	PHEO	13	-1.869	6.419	-1.665	1.00	0.00
ATOM	250	2HD	PHEO	13	-2.273	5.492	-1.285	1.00	0.00
ATOM	251	C	PHEO	13	-0.224	3.962	-5.175	1.00	0.00
ATOM	252	O	PHEO	13	-1.409	4.117	-5.582	1.00	0.00
TER									
ENDMDL									
MODEL 3									
ATOM	1	N	VALM	1	-0.636	3.396	-4.497	1.00	0.00
ATOM	2	QB	VALM	1	-2.349	4.075	-4.481	1.00	0.00
ATOM	3	CN	VALM	1	-2.011	3.941	-4.484	1.00	0.00
ATOM	4	1HNB	VALM	1	-2.693	3.220	-4.935	1.00	0.00
ATOM	5	2HNB	VALM	1	-2.316	4.135	-3.455	1.00	0.00
ATOM	6	3HNB	VALM	1	-2.040	4.871	-5.052	1.00	0.00
ATOM	7	CA	VALM	1	-0.369	1.966	-4.372	1.00	0.00
ATOM	8	HA	VALM	1	-1.316	1.447	-4.138	1.00	0.00
ATOM	9	CB	VALM	1	0.211	1.408	-5.731	1.00	0.00
ATOM	10	HB	VALM	1	1.023	2.097	-6.049	1.00	0.00
ATOM	11	QG1	VALM	1	1.000	-0.403	-5.678	1.00	0.00
ATOM	12	QG2	VALM	1	-1.099	1.355	-7.191	1.00	0.00
ATOM	13	CG1	VALM	1	0.836	-0.014	-5.683	1.00	0.00
ATOM	14	1HG1	VALM	1	1.429	-0.185	-4.764	1.00	0.00
ATOM	15	2HG1	VALM	1	0.069	-0.811	-5.729	1.00	0.00
ATOM	16	3HG1	VALM	1	1.503	-0.213	-6.542	1.00	0.00
ATOM	17	CG2	VALM	1	-0.822	1.359	-6.882	1.00	0.00
ATOM	18	1HG2	VALM	1	-1.052	0.325	-7.198	1.00	0.00



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ATOM	19	2HG2	VALM	1	-1.779	1.833	-6.596	1.00	0.00
ATOM	20	3HG2	VALM	1	-0.466	1.906	-7.777	1.00	0.00
ATOM	21	QQG	VALM	1	-0.049	0.476	-6.435	1.00	0.00
ATOM	22	C	VALM	1	0.579	1.690	-3.230	1.00	0.00
ATOM	23	O	VALM	1	1.563	2.410	-3.072	1.00	0.00
ATOM	24	N	PRO	2	0.264	0.632	-2.435	1.00	0.00
ATOM	25	CD	PRO	2	-0.893	-0.244	-2.592	1.00	0.00
ATOM	26	CA	PRO	2	1.101	0.269	-1.305	1.00	0.00
ATOM	27	HA	PRO	2	1.393	1.089	-0.813	1.00	0.00
ATOM	28	CB	PRO	2	0.228	-0.625	-0.440	1.00	0.00
ATOM	29	2HB	PRO	2	-0.164	-0.077	0.417	1.00	0.00
ATOM	30	QB	PRO	2	-0.164	-0.077	0.417	1.00	0.00
ATOM	31	CG	PRO	2	-0.898	-1.106	-1.341	1.00	0.00
ATOM	32	2HG	PRO	2	-1.857	-1.030	-0.828	1.00	0.00
ATOM	33	QG	PRO	2	-1.857	-1.030	-0.828	1.00	0.00
ATOM	34	2HD	PRO	2	-1.816	0.330	-2.680	1.00	0.00
ATOM	35	QD	PRO	2	-1.816	0.330	-2.680	1.00	0.00
ATOM	36	C	PRO	2	2.385	-0.419	-1.772	1.00	0.00
ATOM	37	O	PRO	2	2.444	-0.943	-2.884	1.00	0.00
ATOM	38	N	ILE	3	3.381	-0.397	-0.899	1.00	0.00
ATOM	39	H	ILE	3	3.325	0.031	0.003	1.00	0.00
ATOM	40	CA	ILE	3	4.661	-1.013	-1.208	1.00	0.00
ATOM	41	HA	ILE	3	4.676	-1.215	-2.280	1.00	0.00
ATOM	42	CB	ILE	3	5.808	-0.044	-0.913	1.00	0.00
ATOM	43	HB	ILE	3	6.498	-0.531	-0.225	1.00	0.00
ATOM	44	QG2	ILE	3	6.778	0.357	-2.488	1.00	0.00
ATOM	45	CG2	ILE	3	6.592	0.281	-2.186	1.00	0.00
ATOM	46	1HG2	ILE	3	6.976	1.298	-2.126	1.00	0.00
ATOM	47	2HG2	ILE	3	7.423	-0.417	-2.288	1.00	0.00
ATOM	48	3HG2	ILE	3	5.934	0.191	-3.051	1.00	0.00
ATOM	49	CG1	ILE	3	5.292	1.219	-0.220	1.00	0.00
ATOM	50	2HG1	ILE	3	4.340	1.517	-0.658	1.00	0.00
ATOM	51	QG1	ILE	3	4.340	1.517	-0.658	1.00	0.00
ATOM	52	QD1	ILE	3	5.078	0.932	1.639	1.00	0.00
ATOM	53	CD1	ILE	3	5.119	0.988	1.283	1.00	0.00
ATOM	54	1HD1	ILE	3	5.568	0.033	1.557	1.00	0.00
ATOM	55	2HD1	ILE	3	5.609	1.791	1.833	1.00	0.00
ATOM	56	3HD1	ILE	3	4.057	0.973	1.528	1.00	0.00
ATOM	57	C	ILE	3	4.774	-2.344	-0.463	1.00	0.00
ATOM	58	O	ILE	3	5.263	-3.364	-0.972	1.00	0.00
ATOM	59	N	PIP	4	4.311	-2.333	0.774	1.00	0.00
ATOM	60	CE	PIP	4	3.738	-1.151	1.378	1.00	0.00
ATOM	61	CA	PIP	4	4.353	-3.505	1.634	1.00	0.00
ATOM	62	HA	PIP	4	5.341	-3.965	1.640	1.00	0.00
ATOM	63	CB	PIP	4	4.008	-3.151	3.094	1.00	0.00
ATOM	64	2HB	PIP	4	4.050	-4.050	3.706	1.00	0.00
ATOM	65	3HB	PIP	4	4.726	-2.422	3.470	1.00	0.00
ATOM	66	QB	PIP	4	4.388	-3.236	3.588	1.00	0.00
ATOM	67	CG	PIP	4	2.590	-2.553	3.155	1.00	0.00
ATOM	68	2HG	PIP	4	2.346	-2.301	4.187	1.00	0.00
ATOM	69	3HG	PIP	4	1.872	-3.281	2.779	1.00	0.00
ATOM	70	QG	PIP	4	2.109	-2.791	3.483	1.00	0.00
ATOM	71	CD	PIP	4	2.576	-1.557	2.302	1.00	0.00
ATOM	72	2HD	PIP	4	2.145	-0.666	2.758	1.00	0.00
ATOM	73	3HD	PIP	4	1.812	-2.073	1.721	1.00	0.00
ATOM	74	QD	PIP	4	1.978	-1.370	2.240	1.00	0.00
ATOM	75	1HE	PIP	4	4.501	-0.635	1.962	1.00	0.00
ATOM	76	2HE	PIP	4	3.367	-0.486	0.599	1.00	0.00
ATOM	77	QE	PIP	4	3.934	-0.560	1.280	1.00	0.00

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ATOM	78	C	PIP	4	3.352	-4.580	1.179	1.00	0.00
ATOM	79	O	PIP	4	2.661	-4.281	0.206	1.00	0.00
ATOM	80	N	ALA	5	3.284	-5.737	1.820	1.00	0.00
ATOM	81	H	ALA	5	3.850	-5.973	2.610	1.00	0.00
ATOM	82	CA	ALA	5	2.353	-6.771	1.401	1.00	0.00
ATOM	83	HA	ALA	5	2.775	-7.262	0.523	1.00	0.00
ATOM	84	QB	ALA	5	2.165	-8.051	2.784	1.00	0.00
ATOM	85	CB	ALA	5	2.201	-7.805	2.519	1.00	0.00
ATOM	86	1HB	ALA	5	2.907	-7.581	3.319	1.00	0.00
ATOM	87	2HB	ALA	5	1.185	-7.770	2.910	1.00	0.00
ATOM	88	3HB	ALA	5	2.404	-8.801	2.123	1.00	0.00
ATOM	89	C	ALA	5	1.020	-6.126	1.018	1.00	0.00
ATOM	90	O	ALA	5	0.687	-5.046	1.504	1.00	0.00
ATOM	91	N	PRO	6	0.273	-6.834	0.129	1.00	0.00
ATOM	92	CD	PRO	6	0.636	-8.116	-0.467	1.00	0.00
ATOM	93	CA	PRO	6	-1.017	-6.341	-0.324	1.00	0.00
ATOM	94	HA	PRO	6	-0.969	-5.359	-0.506	1.00	0.00
ATOM	95	CB	PRO	6	-1.319	-7.133	-1.586	1.00	0.00
ATOM	96	2HB	PRO	6	-1.121	-6.537	-2.477	1.00	0.00
ATOM	97	QB	PRO	6	-1.121	-6.537	-2.477	1.00	0.00
ATOM	98	CG	PRO	6	-0.419	-8.356	-1.536	1.00	0.00
ATOM	99	2HG	PRO	6	0.052	-8.523	-2.506	1.00	0.00
ATOM	100	QG	PRO	6	0.052	-8.523	-2.506	1.00	0.00
ATOM	101	2HD	PRO	6	1.636	-8.084	-0.898	1.00	0.00
ATOM	102	QD	PRO	6	1.636	-8.084	-0.898	1.00	0.00
ATOM	103	C	PRO	6	-2.081	-6.515	0.760	1.00	0.00
ATOM	104	O	PRO	6	-2.463	-7.622	1.160	1.00	0.00
ATOM	105	N	THRM	7	-2.571	-5.390	1.247	1.00	0.00
ATOM	106	QB	THRM	7	-3.858	-5.567	2.556	1.00	0.00
ATOM	107	CN	THRM	7	-3.604	-5.532	2.298	1.00	0.00
ATOM	108	1HNB	THRM	7	-3.783	-6.589	2.490	1.00	0.00
ATOM	109	2HNB	THRM	7	-3.260	-5.049	3.213	1.00	0.00
ATOM	110	3HNB	THRM	7	-4.529	-5.062	1.965	1.00	0.00
ATOM	111	CA	THRM	7	-2.123	-4.083	0.776	1.00	0.00
ATOM	112	HA	THRM	7	-1.017	-4.081	0.757	1.00	0.00
ATOM	113	CB	THRM	7	-2.650	-3.809	-0.673	1.00	0.00
ATOM	114	HB	THRM	7	-1.776	-3.736	-1.354	1.00	0.00
ATOM	115	QG2	THRM	7	-3.900	-5.129	-1.405	1.00	0.00
ATOM	116	OG1	THRM	7	-3.365	-2.580	-0.717	1.00	0.00
ATOM	117	1HG	THRM	7	-3.629	-2.458	-1.635	1.00	0.00
ATOM	118	CG2	THRM	7	-3.632	-4.849	-1.252	1.00	0.00
ATOM	119	1HG2	THRM	7	-4.110	-5.455	-0.461	1.00	0.00
ATOM	120	2HG2	THRM	7	-4.462	-4.380	-1.813	1.00	0.00
ATOM	121	3HG2	THRM	7	-3.127	-5.551	-1.942	1.00	0.00
ATOM	122	C	THRM	7	-2.559	-2.988	1.720	1.00	0.00
ATOM	123	O	THRM	7	-3.384	-3.239	2.597	1.00	0.00
ATOM	124	N	VAL	8	-2.005	-1.800	1.527	1.00	0.00
ATOM	125	H	VAL	8	-1.335	-1.605	0.811	1.00	0.00
ATOM	126	CA	VAL	8	-2.348	-0.669	2.372	1.00	0.00
ATOM	127	HA	VAL	8	-3.365	-0.823	2.732	1.00	0.00
ATOM	128	CB	VAL	8	-1.418	-0.623	3.588	1.00	0.00
ATOM	129	HB	VAL	8	-1.209	0.424	3.810	1.00	0.00
ATOM	130	QG1	VAL	8	-2.250	-1.386	5.107	1.00	0.00
ATOM	131	QG2	VAL	8	0.229	-1.479	3.213	1.00	0.00
ATOM	132	CG1	VAL	8	-2.090	-1.240	4.816	1.00	0.00
ATOM	133	1HG1	VAL	8	-3.116	-1.513	4.570	1.00	0.00
ATOM	134	2HG1	VAL	8	-1.541	-2.130	5.122	1.00	0.00
ATOM	135	3HG1	VAL	8	-2.093	-0.516	5.630	1.00	0.00
ATOM	136	CG2	VAL	8	-0.087	-1.315	3.286	1.00	0.00

ATOM	137	1HG2	VAL	8	-0.221	-2.395	3.327	1.00	0.00
ATOM	138	2HG2	VAL	8	0.253	-1.029	2.290	1.00	0.00
ATOM	139	3HG2	VAL	8	0.655	-1.012	4.024	1.00	0.00
ATOM	140	QOG	VAL	8	-1.010	-1.432	4.160	1.00	0.00
ATOM	141	C	VAL	8	-2.307	0.615	1.541	1.00	0.00
ATOM	142	O	VAL	8	-1.887	0.651	0.378	1.00	0.00
ATOM	143	N	THRM	9	-2.758	1.693	2.156	1.00	0.00
ATOM	144	QB	THRM	9	-3.345	1.449	3.887	1.00	0.00
ATOM	145	CN	THRM	9	-3.229	1.497	3.546	1.00	0.00
ATOM	146	1HNB	THRM	9	-3.114	0.450	3.824	1.00	0.00
ATOM	147	2HNB	THRM	9	-2.640	2.119	4.220	1.00	0.00
ATOM	148	3HNB	THRM	9	-4.280	1.779	3.616	1.00	0.00
ATOM	149	CA	THRM	9	-2.790	2.998	1.505	1.00	0.00
ATOM	150	HA	THRM	9	-2.475	2.871	0.453	1.00	0.00
ATOM	151	CB	THRM	9	-4.240	3.589	1.528	1.00	0.00
ATOM	152	HB	THRM	9	-4.322	4.278	2.396	1.00	0.00
ATOM	153	QG2	THRM	9	-4.812	4.556	-0.079	1.00	0.00
ATOM	154	OG1	THRM	9	-5.198	2.551	1.680	1.00	0.00
ATOM	155	1HG	THRM	9	-5.215	2.078	0.843	1.00	0.00
ATOM	156	CG2	THRM	9	-4.689	4.348	0.260	1.00	0.00
ATOM	157	1HG2	THRM	9	-5.639	4.892	0.416	1.00	0.00
ATOM	158	2HG2	THRM	9	-3.956	5.112	-0.058	1.00	0.00
ATOM	159	3HG2	THRM	9	-4.839	3.664	-0.596	1.00	0.00
ATOM	160	C	THRM	9	-1.815	3.951	2.155	1.00	0.00
ATOM	161	O	THRM	9	-2.185	4.898	2.819	1.00	0.00
ATOM	162	N	VALM	10	-0.535	3.693	1.957	1.00	0.00
ATOM	163	QB	VALM	10	-0.158	2.214	0.922	1.00	0.00
ATOM	164	CN	VALM	10	-0.233	2.506	1.126	1.00	0.00
ATOM	165	1HNB	VALM	10	-0.445	1.600	1.694	1.00	0.00
ATOM	166	2HNB	VALM	10	-0.849	2.524	0.228	1.00	0.00
ATOM	167	3HNB	VALM	10	0.820	2.519	0.844	1.00	0.00
ATOM	168	CA	VALM	10	0.519	4.529	2.524	1.00	0.00
ATOM	169	HA	VALM	10	0.166	5.576	2.555	1.00	0.00
ATOM	170	CB	VALM	10	0.854	4.047	3.992	1.00	0.00
ATOM	171	HB	VALM	10	1.750	3.395	3.926	1.00	0.00
ATOM	172	QG1	VALM	10	1.292	5.467	5.294	1.00	0.00
ATOM	173	QG2	VALM	10	-0.567	2.984	4.827	1.00	0.00
ATOM	174	CG1	VALM	10	1.194	5.160	5.021	1.00	0.00
ATOM	175	1HG1	VALM	10	0.824	4.924	6.037	1.00	0.00
ATOM	176	2HG1	VALM	10	2.283	5.337	5.104	1.00	0.00
ATOM	177	3HG1	VALM	10	0.768	6.141	4.740	1.00	0.00
ATOM	178	CG2	VALM	10	-0.271	3.212	4.650	1.00	0.00
ATOM	179	1HG2	VALM	10	-1.234	3.755	4.679	1.00	0.00
ATOM	180	2HG2	VALM	10	-0.447	2.264	4.112	1.00	0.00
ATOM	181	3HG2	VALM	10	-0.019	2.932	5.691	1.00	0.00
ATOM	182	QOG	VALM	10	0.363	4.226	5.060	1.00	0.00
ATOM	183	C	VALM	10	1.754	4.505	1.656	1.00	0.00
ATOM	184	O	VALM	10	2.825	4.029	2.052	1.00	0.00
ATOM	185	N	ILEM	11	1.624	5.022	0.449	1.00	0.00
ATOM	186	QB	ILEM	11	-0.046	5.685	0.030	1.00	0.00
ATOM	187	CN	ILEM	11	0.284	5.554	0.113	1.00	0.00
ATOM	188	1HNB	ILEM	11	-0.386	5.417	0.962	1.00	0.00
ATOM	189	2HNB	ILEM	11	0.362	6.616	-0.119	1.00	0.00
ATOM	190	3HNB	ILEM	11	-0.113	5.022	-0.751	1.00	0.00
ATOM	191	CA	ILEM	11	2.733	5.067	-0.498	1.00	0.00
ATOM	192	HA	ILEM	11	2.400	5.651	-1.377	1.00	0.00
ATOM	193	CB	ILEM	11	3.996	5.788	0.128	1.00	0.00
ATOM	194	HB	ILEM	11	3.772	5.943	1.204	1.00	0.00
ATOM	195	QG2	ILEM	11	5.650	4.697	0.016	1.00	0.00

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ATOM	196	CG2	ILEM	11	5.293	4.925	0.036	1.00	0.00
ATOM	197	1HG2	ILEM	11	6.210	5.532	0.135	1.00	0.00
ATOM	198	2HG2	ILEM	11	5.373	4.175	0.841	1.00	0.00
ATOM	199	3HG2	ILEM	11	5.366	4.384	-0.927	1.00	0.00
ATOM	200	CG1	ILEM	11	4.307	7.196	-0.473	1.00	0.00
ATOM	201	2HG1	ILEM	11	4.093	7.190	-1.559	1.00	0.00
ATOM	202	QG1	ILEM	11	4.093	7.190	-1.559	1.00	0.00
ATOM	203	QD1	ILEM	11	3.273	8.682	0.261	1.00	0.00
ATOM	204	CD1	ILEM	11	3.495	8.372	0.109	1.00	0.00
ATOM	205	1HD1	ILEM	11	2.450	8.351	-0.251	1.00	0.00
ATOM	206	2HD1	ILEM	11	3.460	8.338	1.214	1.00	0.00
ATOM	207	3HD1	ILEM	11	3.908	9.355	-0.180	1.00	0.00
ATOM	208	C	ILEM	11	3.068	3.685	-1.004	1.00	0.00
ATOM	209	O	ILEM	11	2.755	2.662	-0.379	1.00	0.00
ATOM	210	N	PIPO	12	3.718	3.632	-2.152	1.00	0.00
ATOM	211	CE	PIPO	12	4.110	2.382	-2.767	1.00	0.00
ATOM	212	CA	PIPO	12	4.107	4.825	-2.887	1.00	0.00
ATOM	213	HA	PIPO	12	4.604	5.550	-2.243	1.00	0.00
ATOM	214	CB	PIPO	12	5.079	4.494	-4.035	1.00	0.00
ATOM	215	2HB	PIPO	12	5.348	5.410	-4.561	1.00	0.00
ATOM	216	3HB	PIPO	12	5.979	4.032	-3.628	1.00	0.00
ATOM	217	QB	PIPO	12	5.663	4.721	-4.094	1.00	0.00
ATOM	218	CG	PIPO	12	4.402	3.519	-5.017	1.00	0.00
ATOM	219	2HG	PIPO	12	5.091	3.285	-5.828	1.00	0.00
ATOM	220	3HG	PIPO	12	3.504	3.980	-5.424	1.00	0.00
ATOM	221	QG	PIPO	12	4.297	3.632	-5.626	1.00	0.00
ATOM	222	CD	PIPO	12	3.994	2.502	-4.298	1.00	0.00
ATOM	223	2HD	PIPO	12	4.289	1.560	-4.760	1.00	0.00
ATOM	224	3HD	PIPO	12	2.963	2.732	-4.567	1.00	0.00
ATOM	225	QD	PIPO	12	3.626	2.146	-4.664	1.00	0.00
ATOM	226	1HE	PIPO	12	5.141	2.151	-2.498	1.00	0.00
ATOM	227	2HE	PIPO	12	3.457	1.583	-2.415	1.00	0.00
ATOM	228	QE	PIPO	12	4.299	1.867	-2.457	1.00	0.00
ATOM	229	C	PIPO	12	2.891	5.529	-3.511	1.00	0.00
ATOM	230	O	PIPO	12	2.711	6.723	-3.241	1.00	0.00
ATOM	231	O1'	PHEO	13	2.080	4.864	-4.313	1.00	0.00
ATOM	232	CA	PHEO	13	0.671	5.217	-4.456	1.00	0.00
ATOM	233	HA	PHEO	13	0.567	6.109	-5.101	1.00	0.00
ATOM	234	CB	PHEO	13	0.078	5.510	-3.044	1.00	0.00
ATOM	235	2HB	PHEO	13	0.905	5.663	-2.323	1.00	0.00
ATOM	236	QB	PHEO	13	0.905	5.663	-2.323	1.00	0.00
ATOM	237	QD	PHEO	13	-1.002	6.828	-2.953	1.00	0.00
ATOM	238	QE	PHEO	13	-2.607	8.693	-2.882	1.00	0.00
ATOM	239	QR	PHEO	13	-2.127	8.134	-2.904	1.00	0.00
ATOM	240	CG	PHEO	13	-0.883	6.705	-2.940	1.00	0.00
ATOM	241	CD1	PHEO	13	-2.145	6.529	-2.363	1.00	0.00
ATOM	242	1HD	PHEO	13	-2.436	5.561	-1.974	1.00	0.00
ATOM	243	CE1	PHEO	13	-3.055	7.579	-2.333	1.00	0.00
ATOM	244	1HE	PHEO	13	-4.039	7.425	-1.912	1.00	0.00
ATOM	245	CZ	PHEO	13	-2.705	8.817	-2.866	1.00	0.00
ATOM	246	HZ	PHEO	13	-3.416	9.630	-2.848	1.00	0.00
ATOM	247	CE2	PHEO	13	-1.445	9.003	-3.433	1.00	0.00
ATOM	248	2HE	PHEO	13	-1.176	9.961	-3.852	1.00	0.00
ATOM	249	CD2	PHEO	13	-0.536	7.949	-3.472	1.00	0.00
ATOM	250	2HD	PHEO	13	0.431	8.095	-3.932	1.00	0.00
ATOM	251	C	PHEO	13	-0.112	4.079	-5.065	1.00	0.00
ATOM	252	O	PHEO	13	-0.190	3.914	-6.314	1.00	0.00
TER									
ENDMDL									

MODEL	4								
ATOM	1	N	VALM	1	0.085	3.231	-5.046	1.00	0.00
ATOM	2	QB	VALM	1	1.142	3.232	-6.557	1.00	0.00
ATOM	3	CN	VALM	1	0.934	3.231	-6.258	1.00	0.00
ATOM	4	1HNB	VALM	1	1.978	3.346	-5.971	1.00	0.00
ATOM	5	2HNB	VALM	1	0.805	2.291	-6.793	1.00	0.00
ATOM	6	3HNB	VALM	1	0.642	4.059	-6.906	1.00	0.00
ATOM	7	CA	VALM	1	-0.292	1.994	-4.367	1.00	0.00
ATOM	8	HA	VALM	1	-1.302	2.120	-3.934	1.00	0.00
ATOM	9	CB	VALM	1	-0.314	0.799	-5.401	1.00	0.00
ATOM	10	HB	VALM	1	-0.190	1.241	-6.413	1.00	0.00
ATOM	11	QG1	VALM	1	1.108	-0.557	-5.193	1.00	0.00
ATOM	12	QG2	VALM	1	-1.998	-0.206	-5.414	1.00	0.00
ATOM	13	CG1	VALM	1	0.806	-0.266	-5.246	1.00	0.00
ATOM	14	1HG1	VALM	1	1.339	-0.463	-6.196	1.00	0.00
ATOM	15	2HG1	VALM	1	1.567	0.030	-4.499	1.00	0.00
ATOM	16	3HG1	VALM	1	0.418	-1.237	-4.885	1.00	0.00
ATOM	17	CG2	VALM	1	-1.639	0.001	-5.411	1.00	0.00
ATOM	18	1HG2	VALM	1	-1.472	-1.090	-5.334	1.00	0.00
ATOM	19	2HG2	VALM	1	-2.299	0.290	-4.573	1.00	0.00
ATOM	20	3HG2	VALM	1	-2.221	0.181	-6.335	1.00	0.00
ATOM	21	QQG	VALM	1	-0.445	-0.381	-5.304	1.00	0.00
ATOM	22	C	VALM	1	0.646	1.697	-3.222	1.00	0.00
ATOM	23	O	VALM	1	1.649	2.392	-3.064	1.00	0.00
ATOM	24	N	PRO	2	0.302	0.650	-2.426	1.00	0.00
ATOM	25	CD	PRO	2	-0.879	-0.196	-2.582	1.00	0.00
ATOM	26	CA	PRO	2	1.127	0.270	-1.292	1.00	0.00
ATOM	27	HA	PRO	2	1.440	1.083	-0.802	1.00	0.00
ATOM	28	CB	PRO	2	0.229	-0.599	-0.426	1.00	0.00
ATOM	29	2HB	PRO	2	-0.151	-0.039	0.428	1.00	0.00
ATOM	30	QB	PRO	2	-0.151	-0.039	0.428	1.00	0.00
ATOM	31	CG	PRO	2	-0.907	-1.054	-1.328	1.00	0.00
ATOM	32	2HG	PRO	2	-1.865	-0.951	-0.817	1.00	0.00
ATOM	33	QG	PRO	2	-1.865	-0.951	-0.817	1.00	0.00
ATOM	34	2HD	PRO	2	-1.785	0.402	-2.673	1.00	0.00
ATOM	35	QD	PRO	2	-1.785	0.402	-2.673	1.00	0.00
ATOM	36	C	PRO	2	2.393	-0.454	-1.754	1.00	0.00
ATOM	37	O	PRO	2	2.411	-1.057	-2.827	1.00	0.00
ATOM	38	N	ILE	3	3.421	-0.370	-0.923	1.00	0.00
ATOM	39	H	ILE	3	3.397	0.122	-0.053	1.00	0.00
ATOM	40	CA	ILE	3	4.688	-1.010	-1.233	1.00	0.00
ATOM	41	HA	ILE	3	4.690	-1.231	-2.301	1.00	0.00
ATOM	42	CB	ILE	3	5.851	-0.051	-0.968	1.00	0.00
ATOM	43	HB	ILE	3	6.555	-0.546	-0.298	1.00	0.00
ATOM	44	QG2	ILE	3	6.784	0.344	-2.568	1.00	0.00
ATOM	45	CG2	ILE	3	6.605	0.267	-2.260	1.00	0.00
ATOM	46	1HG2	ILE	3	6.904	1.316	-2.257	1.00	0.00
ATOM	47	2HG2	ILE	3	7.491	-0.363	-2.330	1.00	0.00
ATOM	48	3HG2	ILE	3	5.956	0.079	-3.116	1.00	0.00
ATOM	49	CG1	ILE	3	5.367	1.215	-0.259	1.00	0.00
ATOM	50	2HG1	ILE	3	4.422	1.541	-0.694	1.00	0.00
ATOM	51	QG1	ILE	3	4.422	1.541	-0.694	1.00	0.00
ATOM	52	QD1	ILE	3	5.144	0.911	1.597	1.00	0.00
ATOM	53	CD1	ILE	3	5.187	0.969	1.240	1.00	0.00
ATOM	54	1HD1	ILE	3	4.127	1.007	1.490	1.00	0.00
ATOM	55	2HD1	ILE	3	5.585	-0.011	1.498	1.00	0.00
ATOM	56	3HD1	ILE	3	5.719	1.737	1.801	1.00	0.00
ATOM	57	C	ILE	3	4.791	-2.328	-0.465	1.00	0.00
ATOM	58	O	ILE	3	5.296	-3.353	-0.946	1.00	0.00

ATOM	59	N	PIP	4	4.300	-2.300	0.760	1.00	0.00
ATOM	60	CE	PIP	4	3.709	-1.111	1.335	1.00	0.00
ATOM	61	CA	PIP	4	4.328	-3.457	1.641	1.00	0.00
ATOM	62	HA	PIP	4	5.318	-3.913	1.676	1.00	0.00
ATOM	63	CB	PIP	4	3.949	-3.082	3.085	1.00	0.00
ATOM	64	2HB	PIP	4	3.980	-3.972	3.713	1.00	0.00
ATOM	65	3HB	PIP	4	4.654	-2.344	3.467	1.00	0.00
ATOM	66	QB	PIP	4	4.317	-3.158	3.590	1.00	0.00
ATOM	67	CG	PIP	4	2.527	-2.490	3.107	1.00	0.00
ATOM	68	2HG	PIP	4	2.258	-2.224	4.129	1.00	0.00
ATOM	69	3HG	PIP	4	1.820	-3.228	2.726	1.00	0.00
ATOM	70	QG	PIP	4	2.039	-2.726	3.427	1.00	0.00
ATOM	71	CD	PIP	4	2.527	-1.509	2.238	1.00	0.00
ATOM	72	2HD	PIP	4	2.081	-0.613	2.670	1.00	0.00
ATOM	73	3HD	PIP	4	1.780	-2.036	1.647	1.00	0.00
ATOM	74	QD	PIP	4	1.930	-1.325	2.158	1.00	0.00
ATOM	75	1HE	PIP	4	4.456	-0.582	1.926	1.00	0.00
ATOM	76	2HE	PIP	4	3.352	-0.461	0.535	1.00	0.00
ATOM	77	QE	PIP	4	3.904	-0.522	1.231	1.00	0.00
ATOM	78	C	PIP	4	3.342	-4.544	1.180	1.00	0.00
ATOM	79	O	PIP	4	2.715	-4.288	0.154	1.00	0.00
ATOM	80	N	ALA	5	3.221	-5.668	1.873	1.00	0.00
ATOM	81	H	ALA	5	3.736	-5.869	2.706	1.00	0.00
ATOM	82	CA	ALA	5	2.304	-6.713	1.451	1.00	0.00
ATOM	83	HA	ALA	5	2.746	-7.213	0.588	1.00	0.00
ATOM	84	QB	ALA	5	2.097	-7.974	2.848	1.00	0.00
ATOM	85	CB	ALA	5	2.137	-7.731	2.579	1.00	0.00
ATOM	86	1HB	ALA	5	2.220	-8.740	2.174	1.00	0.00
ATOM	87	2HB	ALA	5	2.913	-7.575	3.329	1.00	0.00
ATOM	88	3HB	ALA	5	1.157	-7.605	3.040	1.00	0.00
ATOM	89	C	ALA	5	0.976	-6.080	1.033	1.00	0.00
ATOM	90	O	ALA	5	0.616	-5.007	1.515	1.00	0.00
ATOM	91	N	PRO	6	0.262	-6.790	0.119	1.00	0.00
ATOM	92	CD	PRO	6	0.655	-8.065	-0.473	1.00	0.00
ATOM	93	CA	PRO	6	-1.020	-6.310	-0.368	1.00	0.00
ATOM	94	HA	PRO	6	-0.978	-5.326	-0.543	1.00	0.00
ATOM	95	CB	PRO	6	-1.277	-7.098	-1.642	1.00	0.00
ATOM	96	2HB	PRO	6	-1.061	-6.496	-2.524	1.00	0.00
ATOM	97	QB	PRO	6	-1.061	-6.496	-2.524	1.00	0.00
ATOM	98	CG	PRO	6	-0.365	-8.312	-1.573	1.00	0.00
ATOM	99	2HG	PRO	6	0.135	-8.468	-2.528	1.00	0.00
ATOM	100	QG	PRO	6	0.135	-8.468	-2.528	1.00	0.00
ATOM	101	2HD	PRO	6	1.667	-8.020	-0.875	1.00	0.00
ATOM	102	QD	PRO	6	1.667	-8.020	-0.875	1.00	0.00
ATOM	103	C	PRO	6	-2.113	-6.502	0.685	1.00	0.00
ATOM	104	O	PRO	6	-2.503	-7.615	1.056	1.00	0.00
ATOM	105	N	THRM	7	-2.618	-5.384	1.175	1.00	0.00
ATOM	106	QB	THRM	7	-3.938	-5.583	2.446	1.00	0.00
ATOM	107	CN	THRM	7	-3.678	-5.544	2.196	1.00	0.00
ATOM	108	1HNB	THRM	7	-3.861	-6.605	2.367	1.00	0.00
ATOM	109	2HNB	THRM	7	-3.360	-5.075	3.127	1.00	0.00
ATOM	110	3HNB	THRM	7	-4.595	-5.070	1.845	1.00	0.00
ATOM	111	CA	THRM	7	-2.158	-4.071	0.737	1.00	0.00
ATOM	112	HA	THRM	7	-1.053	-4.078	0.713	1.00	0.00
ATOM	113	CB	THRM	7	-2.689	-3.753	-0.703	1.00	0.00
ATOM	114	HB	THRM	7	-1.819	-3.701	-1.392	1.00	0.00
ATOM	115	QG2	THRM	7	-3.990	-5.019	-1.443	1.00	0.00
ATOM	116	OG1	THRM	7	-3.360	-2.500	-0.721	1.00	0.00
ATOM	117	1HG	THRM	7	-3.411	-2.238	-1.645	1.00	0.00

ATOM	118	CG2	THRM	7	-3.714	-4.748	-1.289	1.00	0.00
ATOM	119	1HG2	THRM	7	-3.367	-5.796	-1.213	1.00	0.00
ATOM	120	2HG2	THRM	7	-4.685	-4.716	-0.760	1.00	0.00
ATOM	121	3HG2	THRM	7	-3.918	-4.546	-2.357	1.00	0.00
ATOM	122	C	THRM	7	-2.581	-2.996	1.710	1.00	0.00
ATOM	123	O	THRM	7	-3.396	-3.265	2.592	1.00	0.00
ATOM	124	N	VAL	8	-2.027	-1.805	1.538	1.00	0.00
ATOM	125	H	VAL	8	-1.365	-1.595	0.818	1.00	0.00
ATOM	126	CA	VAL	8	-2.356	-0.693	2.413	1.00	0.00
ATOM	127	HA	VAL	8	-3.372	-0.850	2.776	1.00	0.00
ATOM	128	CB	VAL	8	-1.418	-0.681	3.621	1.00	0.00
ATOM	129	HB	VAL	8	-1.202	0.358	3.868	1.00	0.00
ATOM	130	QG1	VAL	8	-2.241	-1.480	5.127	1.00	0.00
ATOM	131	QG2	VAL	8	0.223	-1.534	3.213	1.00	0.00
ATOM	132	CG1	VAL	8	-2.083	-1.327	4.838	1.00	0.00
ATOM	133	1HG1	VAL	8	-1.937	-0.692	5.711	1.00	0.00
ATOM	134	2HG1	VAL	8	-3.150	-1.445	4.649	1.00	0.00
ATOM	135	3HG1	VAL	8	-1.636	-2.304	5.021	1.00	0.00
ATOM	136	CG2	VAL	8	-0.092	-1.370	3.291	1.00	0.00
ATOM	137	1HG2	VAL	8	0.678	-1.025	3.982	1.00	0.00
ATOM	138	2HG2	VAL	8	-0.209	-2.450	3.388	1.00	0.00
ATOM	139	3HG2	VAL	8	0.201	-1.126	2.269	1.00	0.00
ATOM	140	QQG	VAL	8	-1.009	-1.507	4.170	1.00	0.00
ATOM	141	C	VAL	8	-2.315	0.610	1.612	1.00	0.00
ATOM	142	O	VAL	8	-1.916	0.670	0.442	1.00	0.00
ATOM	143	N	THRM	9	-2.740	1.678	2.261	1.00	0.00
ATOM	144	QB	THRM	9	-3.298	1.400	3.996	1.00	0.00
ATOM	145	CN	THRM	9	-3.188	1.454	3.654	1.00	0.00
ATOM	146	1HNB	THRM	9	-3.081	0.399	3.906	1.00	0.00
ATOM	147	2HNB	THRM	9	-2.579	2.052	4.331	1.00	0.00
ATOM	148	3HNB	THRM	9	-4.233	1.747	3.752	1.00	0.00
ATOM	149	CA	THRM	9	-2.768	3.000	1.642	1.00	0.00
ATOM	150	HA	THRM	9	-2.488	2.892	0.578	1.00	0.00
ATOM	151	CB	THRM	9	-4.205	3.617	1.726	1.00	0.00
ATOM	152	HB	THRM	9	-4.296	4.159	2.691	1.00	0.00
ATOM	153	QG2	THRM	9	-4.712	4.840	0.281	1.00	0.00
ATOM	154	OG1	THRM	9	-5.190	2.593	1.684	1.00	0.00
ATOM	155	1HG	THRM	9	-5.878	2.859	2.301	1.00	0.00
ATOM	156	CG2	THRM	9	-4.602	4.582	0.588	1.00	0.00
ATOM	157	1HG2	THRM	9	-4.943	4.043	-0.315	1.00	0.00
ATOM	158	2HG2	THRM	9	-5.437	5.249	0.872	1.00	0.00
ATOM	159	3HG2	THRM	9	-3.757	5.230	0.284	1.00	0.00
ATOM	160	C	THRM	9	-1.754	3.918	2.283	1.00	0.00
ATOM	161	O	THRM	9	-2.085	4.851	2.988	1.00	0.00
ATOM	162	N	VALM	10	-0.487	3.646	2.032	1.00	0.00
ATOM	163	QB	VALM	10	-0.173	2.192	0.943	1.00	0.00
ATOM	164	CN	VALM	10	-0.235	2.480	1.158	1.00	0.00
ATOM	165	1HNB	VALM	10	-0.888	2.529	0.287	1.00	0.00
ATOM	166	2HNB	VALM	10	0.806	2.486	0.833	1.00	0.00
ATOM	167	3HNB	VALM	10	-0.436	1.561	1.710	1.00	0.00
ATOM	168	CA	VALM	10	0.600	4.449	2.585	1.00	0.00
ATOM	169	HA	VALM	10	0.258	5.495	2.678	1.00	0.00
ATOM	170	CB	VALM	10	1.001	3.900	4.012	1.00	0.00
ATOM	171	HB	VALM	10	1.956	3.346	3.893	1.00	0.00
ATOM	172	QG1	VALM	10	1.299	5.259	5.415	1.00	0.00
ATOM	173	QG2	VALM	10	-0.302	2.653	4.783	1.00	0.00
ATOM	174	CG1	VALM	10	1.243	4.966	5.117	1.00	0.00
ATOM	175	1HG1	VALM	10	2.244	4.874	5.581	1.00	0.00
ATOM	176	2HG1	VALM	10	1.155	5.999	4.731	1.00	0.00

ATOM	177	3HG1	VALM	10	0.500	4.904	5.934	1.00	0.00
ATOM	178	CG2	VALM	10	-0.027	2.913	4.615	1.00	0.00
ATOM	179	1HG2	VALM	10	-0.398	2.185	3.870	1.00	0.00
ATOM	180	2HG2	VALM	10	0.402	2.334	5.452	1.00	0.00
ATOM	181	3HG2	VALM	10	-0.910	3.439	5.028	1.00	0.00
ATOM	182	QOG	VALM	10	0.499	3.956	5.099	1.00	0.00
ATOM	183	C	VALM	10	1.793	4.456	1.658	1.00	0.00
ATOM	184	O	VALM	10	2.882	3.969	1.988	1.00	0.00
ATOM	185	N	ILEM	11	1.604	5.011	0.476	1.00	0.00
ATOM	186	QB	ILEM	11	-0.084	5.683	0.160	1.00	0.00
ATOM	187	CN	ILEM	11	0.249	5.550	0.222	1.00	0.00
ATOM	188	1HNB	ILEM	11	-0.379	5.384	1.097	1.00	0.00
ATOM	189	2HNB	ILEM	11	0.315	6.619	0.020	1.00	0.00
ATOM	190	3HNB	ILEM	11	-0.188	5.046	-0.639	1.00	0.00
ATOM	191	CA	ILEM	11	2.667	5.088	-0.521	1.00	0.00
ATOM	192	HA	ILEM	11	2.266	5.633	-1.396	1.00	0.00
ATOM	193	CB	ILEM	11	3.918	5.886	0.031	1.00	0.00
ATOM	194	HB	ILEM	11	3.726	6.072	1.109	1.00	0.00
ATOM	195	QG2	ILEM	11	5.613	4.864	-0.101	1.00	0.00
ATOM	196	CG2	ILEM	11	5.247	5.077	-0.077	1.00	0.00
ATOM	197	1HG2	ILEM	11	6.139	5.728	-0.049	1.00	0.00
ATOM	198	2HG2	ILEM	11	5.397	4.372	0.759	1.00	0.00
ATOM	199	3HG2	ILEM	11	5.303	4.492	-1.014	1.00	0.00
ATOM	200	CG1	ILEM	11	4.145	7.283	-0.633	1.00	0.00
ATOM	201	2HG1	ILEM	11	3.857	7.236	-1.700	1.00	0.00
ATOM	202	QG1	ILEM	11	3.857	7.236	-1.700	1.00	0.00
ATOM	203	QD1	ILEM	11	3.127	8.762	0.137	1.00	0.00
ATOM	204	CD1	ILEM	11	3.341	8.453	-0.030	1.00	0.00
ATOM	205	1HD1	ILEM	11	2.901	8.175	0.945	1.00	0.00
ATOM	206	2HD1	ILEM	11	3.978	9.341	0.143	1.00	0.00
ATOM	207	3HD1	ILEM	11	2.503	8.768	-0.676	1.00	0.00
ATOM	208	C	ILEM	11	3.050	3.713	-1.012	1.00	0.00
ATOM	209	O	ILEM	11	2.799	2.689	-0.360	1.00	0.00
ATOM	210	N	PIPO	12	3.669	3.666	-2.176	1.00	0.00
ATOM	211	CE	PIPO	12	4.100	2.423	-2.779	1.00	0.00
ATOM	212	CA	PIPO	12	3.985	4.861	-2.943	1.00	0.00
ATOM	213	HA	PIPO	12	4.466	5.619	-2.325	1.00	0.00
ATOM	214	CB	PIPO	12	4.939	4.551	-4.112	1.00	0.00
ATOM	215	2HB	PIPO	12	5.152	5.468	-4.661	1.00	0.00
ATOM	216	3HB	PIPO	12	5.869	4.137	-3.722	1.00	0.00
ATOM	217	QB	PIPO	12	5.510	4.802	-4.191	1.00	0.00
ATOM	218	CG	PIPO	12	4.281	3.528	-5.056	1.00	0.00
ATOM	219	2HG	PIPO	12	4.956	3.310	-5.883	1.00	0.00
ATOM	220	3HG	PIPO	12	3.351	3.941	-5.448	1.00	0.00
ATOM	221	QG	PIPO	12	4.153	3.625	-5.665	1.00	0.00
ATOM	222	CD	PIPO	12	3.937	2.509	-4.308	1.00	0.00
ATOM	223	2HD	PIPO	12	4.261	1.572	-4.762	1.00	0.00
ATOM	224	3HD	PIPO	12	2.890	2.688	-4.553	1.00	0.00
ATOM	225	QD	PIPO	12	3.575	2.130	-4.658	1.00	0.00
ATOM	226	1HE	PIPO	12	5.146	2.244	-2.536	1.00	0.00
ATOM	227	2HE	PIPO	12	3.493	1.603	-2.394	1.00	0.00
ATOM	228	QE	PIPO	12	4.320	1.924	-2.465	1.00	0.00
ATOM	229	C	PIPO	12	2.721	5.499	-3.544	1.00	0.00
ATOM	230	O	PIPO	12	2.560	6.717	-3.398	1.00	0.00
ATOM	231	O1'	PHEO	13	1.852	4.753	-4.201	1.00	0.00
ATOM	232	CA	PHEO	13	0.453	5.142	-4.346	1.00	0.00
ATOM	233	HA	PHEO	13	0.375	6.057	-4.963	1.00	0.00
ATOM	234	CB	PHEO	13	-0.148	5.402	-2.931	1.00	0.00
ATOM	235	2HB	PHEO	13	0.650	5.763	-2.253	1.00	0.00



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ATOM	236	QB	PHEO	13	0.650	5.763	-2.253	1.00	0.00
ATOM	237	QD	PHEO	13	-1.450	6.500	-2.823	1.00	0.00
ATOM	238	QE	PHEO	13	-3.297	8.113	-2.595	1.00	0.00
ATOM	239	QR	PHEO	13	-2.743	7.630	-2.663	1.00	0.00
ATOM	240	CG	PHEO	13	-1.327	6.385	-2.858	1.00	0.00
ATOM	241	CD1	PHEO	13	-1.101	7.751	-3.059	1.00	0.00
ATOM	242	1HD	PHEO	13	-0.104	8.112	-3.281	1.00	0.00
ATOM	243	CE1	PHEO	13	-2.142	8.663	-2.917	1.00	0.00
ATOM	244	1HE	PHEO	13	-1.949	9.720	-3.045	1.00	0.00
ATOM	245	CZ	PHEO	13	-3.419	8.214	-2.593	1.00	0.00
ATOM	246	HZ	PHEO	13	-4.224	8.924	-2.477	1.00	0.00
ATOM	247	CE2	PHEO	13	-3.654	6.853	-2.404	1.00	0.00
ATOM	248	2HE	PHEO	13	-4.644	6.506	-2.144	1.00	0.00
ATOM	249	CD2	PHEO	13	-2.611	5.940	-2.534	1.00	0.00
ATOM	250	2HD	PHEO	13	-2.796	4.888	-2.365	1.00	0.00
ATOM	251	C	PHEO	13	-0.349	4.043	-5.000	1.00	0.00
ATOM	252	O	PHEO	13	-1.470	4.262	-5.539	1.00	0.00
TER									
ENDMDL									
MODEL 5									
ATOM	1	N	VALM	1	-0.644	3.388	-4.507	1.00	0.00
ATOM	2	QB	VALM	1	-2.361	4.060	-4.454	1.00	0.00
ATOM	3	CN	VALM	1	-2.022	3.927	-4.465	1.00	0.00
ATOM	4	1HNB	VALM	1	-2.681	3.288	-5.052	1.00	0.00
ATOM	5	2HNB	VALM	1	-2.370	3.955	-3.432	1.00	0.00
ATOM	6	3HNB	VALM	1	-2.031	4.936	-4.879	1.00	0.00
ATOM	7	CA	VALM	1	-0.369	1.959	-4.389	1.00	0.00
ATOM	8	HA	VALM	1	-1.312	1.432	-4.159	1.00	0.00
ATOM	9	CB	VALM	1	0.217	1.412	-5.750	1.00	0.00
ATOM	10	HB	VALM	1	1.022	2.111	-6.065	1.00	0.00
ATOM	11	QG1	VALM	1	1.025	-0.391	-5.685	1.00	0.00
ATOM	12	QG2	VALM	1	-1.089	1.337	-7.212	1.00	0.00
ATOM	13	CG1	VALM	1	0.857	-0.004	-5.706	1.00	0.00
ATOM	14	1HG1	VALM	1	1.530	-0.192	-6.564	1.00	0.00
ATOM	15	2HG1	VALM	1	1.447	-0.170	-4.785	1.00	0.00
ATOM	16	3HG1	VALM	1	0.098	-0.810	-5.706	1.00	0.00
ATOM	17	CG2	VALM	1	-0.816	1.358	-6.901	1.00	0.00
ATOM	18	1HG2	VALM	1	-1.586	2.145	-6.811	1.00	0.00
ATOM	19	2HG2	VALM	1	-0.338	1.480	-7.889	1.00	0.00
ATOM	20	3HG2	VALM	1	-1.343	0.384	-6.935	1.00	0.00
ATOM	21	QQG	VALM	1	-0.032	0.473	-6.448	1.00	0.00
ATOM	22	C	VALM	1	0.580	1.685	-3.247	1.00	0.00
ATOM	23	O	VALM	1	1.566	2.404	-3.091	1.00	0.00
ATOM	24	N	PRO	2	0.264	0.629	-2.450	1.00	0.00
ATOM	25	CD	PRO	2	-0.894	-0.246	-2.605	1.00	0.00
ATOM	26	CA	PRO	2	1.103	0.266	-1.319	1.00	0.00
ATOM	27	HA	PRO	2	1.397	1.087	-0.830	1.00	0.00
ATOM	28	CB	PRO	2	0.229	-0.625	-0.453	1.00	0.00
ATOM	29	2HB	PRO	2	-0.162	-0.076	0.403	1.00	0.00
ATOM	30	QB	PRO	2	-0.162	-0.076	0.403	1.00	0.00
ATOM	31	CG	PRO	2	-0.898	-1.107	-1.352	1.00	0.00
ATOM	32	2HG	PRO	2	-1.856	-1.029	-0.838	1.00	0.00
ATOM	33	QG	PRO	2	-1.856	-1.029	-0.838	1.00	0.00
ATOM	34	2HD	PRO	2	-1.815	0.329	-2.693	1.00	0.00
ATOM	35	QD	PRO	2	-1.815	0.329	-2.693	1.00	0.00
ATOM	36	C	PRO	2	2.385	-0.425	-1.787	1.00	0.00
ATOM	37	O	PRO	2	2.442	-0.951	-2.897	1.00	0.00
ATOM	38	N	ILE	3	3.383	-0.401	-0.915	1.00	0.00
ATOM	39	H	ILE	3	3.329	0.029	-0.015	1.00	0.00

ATOM	40	CA	ILE	3	4.661	-1.018	-1.224	1.00	0.00
ATOM	41	HA	ILE	3	4.672	-1.230	-2.294	1.00	0.00
ATOM	42	CB	ILE	3	5.808	-0.046	-0.943	1.00	0.00
ATOM	43	HB	ILE	3	6.506	-0.529	-0.259	1.00	0.00
ATOM	44	QG2	ILE	3	6.765	0.350	-2.528	1.00	0.00
ATOM	45	CG2	ILE	3	6.582	0.275	-2.224	1.00	0.00
ATOM	46	1HG2	ILE	3	7.300	-0.521	-2.424	1.00	0.00
ATOM	47	2HG2	ILE	3	5.886	0.353	-3.059	1.00	0.00
ATOM	48	3HG2	ILE	3	7.111	1.220	-2.102	1.00	0.00
ATOM	49	CG1	ILE	3	5.297	1.219	-0.251	1.00	0.00
ATOM	50	2HG1	ILE	3	4.343	1.516	-0.686	1.00	0.00
ATOM	51	QG1	ILE	3	4.343	1.516	-0.686	1.00	0.00
ATOM	52	QD1	ILE	3	5.090	0.937	1.610	1.00	0.00
ATOM	53	CD1	ILE	3	5.130	0.991	1.252	1.00	0.00
ATOM	54	1HD1	ILE	3	4.069	0.985	1.504	1.00	0.00
ATOM	55	2HD1	ILE	3	5.573	0.034	1.526	1.00	0.00
ATOM	56	3HD1	ILE	3	5.628	1.792	1.799	1.00	0.00
ATOM	57	C	ILE	3	4.779	-2.344	-0.468	1.00	0.00
ATOM	58	O	ILE	3	5.273	-3.365	-0.968	1.00	0.00
ATOM	59	N	PIP	4	4.313	-2.324	0.766	1.00	0.00
ATOM	60	CE	PIP	4	3.735	-1.139	1.361	1.00	0.00
ATOM	61	CA	PIP	4	4.358	-3.488	1.638	1.00	0.00
ATOM	62	HA	PIP	4	5.349	-3.943	1.648	1.00	0.00
ATOM	63	CB	PIP	4	4.009	-3.123	3.093	1.00	0.00
ATOM	64	2HB	PIP	4	4.053	-4.017	3.713	1.00	0.00
ATOM	65	3HB	PIP	4	4.723	-2.388	3.464	1.00	0.00
ATOM	66	QB	PIP	4	4.388	-3.203	3.588	1.00	0.00
ATOM	67	CG	PIP	4	2.588	-2.531	3.147	1.00	0.00
ATOM	68	2HG	PIP	4	2.341	-2.272	4.177	1.00	0.00
ATOM	69	3HG	PIP	4	1.874	-3.265	2.776	1.00	0.00
ATOM	70	QG	PIP	4	2.108	-2.769	3.476	1.00	0.00
ATOM	71	CD	PIP	4	2.571	-1.543	2.286	1.00	0.00
ATOM	72	2HD	PIP	4	2.135	-0.650	2.734	1.00	0.00
ATOM	73	3HD	PIP	4	1.810	-2.066	1.706	1.00	0.00
ATOM	74	QD	PIP	4	1.973	-1.358	2.220	1.00	0.00
ATOM	75	1HE	PIP	4	4.494	-0.615	1.942	1.00	0.00
ATOM	76	2HE	PIP	4	3.361	-0.482	0.575	1.00	0.00
ATOM	77	QE	PIP	4	3.928	-0.548	1.258	1.00	0.00
ATOM	78	C	PIP	4	3.363	-4.571	1.190	1.00	0.00
ATOM	79	O	PIP	4	2.705	-4.300	0.186	1.00	0.00
ATOM	80	N	ALA	5	3.267	-5.705	1.867	1.00	0.00
ATOM	81	H	ALA	5	3.806	-5.917	2.682	1.00	0.00
ATOM	82	CA	ALA	5	2.340	-6.746	1.456	1.00	0.00
ATOM	83	HA	ALA	5	2.772	-7.251	0.591	1.00	0.00
ATOM	84	QB	ALA	5	2.139	-8.003	2.858	1.00	0.00
ATOM	85	CB	ALA	5	2.178	-7.762	2.589	1.00	0.00
ATOM	86	1HB	ALA	5	1.117	-7.938	2.769	1.00	0.00
ATOM	87	2HB	ALA	5	2.659	-8.699	2.309	1.00	0.00
ATOM	88	3HB	ALA	5	2.641	-7.372	3.495	1.00	0.00
ATOM	89	C	ALA	5	1.010	-6.108	1.049	1.00	0.00
ATOM	90	O	ALA	5	0.663	-5.031	1.528	1.00	0.00
ATOM	91	N	PRO	6	0.284	-6.820	0.146	1.00	0.00
ATOM	92	CD	PRO	6	0.664	-8.100	-0.443	1.00	0.00
ATOM	93	CA	PRO	6	-1.000	-6.334	-0.329	1.00	0.00
ATOM	94	HA	PRO	6	-0.955	-5.353	-0.511	1.00	0.00
ATOM	95	CB	PRO	6	-1.276	-7.128	-1.596	1.00	0.00
ATOM	96	2HB	PRO	6	-1.064	-6.532	-2.484	1.00	0.00
ATOM	97	QB	PRO	6	-1.064	-6.532	-2.484	1.00	0.00
ATOM	98	CG	PRO	6	-0.370	-8.346	-1.531	1.00	0.00

ATOM	99	2HG	PRO	6	0.120	-8.512	-2.491	1.00	0.00
ATOM	100	QG	PRO	6	0.120	-8.512	-2.491	1.00	0.00
ATOM	101	2HD	PRO	6	1.672	-8.063	-0.855	1.00	0.00
ATOM	102	QD	PRO	6	1.672	-8.063	-0.855	1.00	0.00
ATOM	103	C	PRO	6	-2.084	-6.514	0.736	1.00	0.00
ATOM	104	O	PRO	6	-2.463	-7.623	1.130	1.00	0.00
ATOM	105	N	THRM	7	-2.590	-5.392	1.210	1.00	0.00
ATOM	106	QB	THRM	7	-3.900	-5.576	2.496	1.00	0.00
ATOM	107	CN	THRM	7	-3.641	-5.540	2.242	1.00	0.00
ATOM	108	1HNB	THRM	7	-3.816	-6.598	2.435	1.00	0.00
ATOM	109	2HNB	THRM	7	-3.318	-5.053	3.163	1.00	0.00
ATOM	110	3HNB	THRM	7	-4.564	-5.078	1.892	1.00	0.00
ATOM	111	CA	THRM	7	-2.143	-4.082	0.745	1.00	0.00
ATOM	112	HA	THRM	7	-1.037	-4.082	0.718	1.00	0.00
ATOM	113	CB	THRM	7	-2.681	-3.797	-0.697	1.00	0.00
ATOM	114	HB	THRM	7	-1.815	-3.758	-1.392	1.00	0.00
ATOM	115	QG2	THRM	7	-3.987	-5.075	-1.408	1.00	0.00
ATOM	116	OG1	THRM	7	-3.354	-2.546	-0.739	1.00	0.00
ATOM	117	1HG	THRM	7	-3.507	-2.355	-1.669	1.00	0.00
ATOM	118	CG2	THRM	7	-3.708	-4.806	-1.257	1.00	0.00
ATOM	119	1HG2	THRM	7	-4.685	-4.730	-0.748	1.00	0.00
ATOM	120	2HG2	THRM	7	-3.916	-4.645	-2.332	1.00	0.00
ATOM	121	3HG2	THRM	7	-3.360	-5.851	-1.145	1.00	0.00
ATOM	122	C	THRM	7	-2.569	-2.994	1.700	1.00	0.00
ATOM	123	O	THRM	7	-3.388	-3.248	2.582	1.00	0.00
ATOM	124	N	VAL	8	-2.014	-1.806	1.512	1.00	0.00
ATOM	125	H	VAL	8	-1.349	-1.607	0.792	1.00	0.00
ATOM	126	CA	VAL	8	-2.347	-0.680	2.368	1.00	0.00
ATOM	127	HA	VAL	8	-3.363	-0.833	2.733	1.00	0.00
ATOM	128	CB	VAL	8	-1.409	-0.646	3.577	1.00	0.00
ATOM	129	HB	VAL	8	-1.192	0.398	3.803	1.00	0.00
ATOM	130	QG1	VAL	8	-2.234	-1.413	5.097	1.00	0.00
ATOM	131	QG2	VAL	8	0.231	-1.508	3.186	1.00	0.00
ATOM	132	CG1	VAL	8	-2.076	-1.266	4.805	1.00	0.00
ATOM	133	1HG1	VAL	8	-1.445	-2.063	5.198	1.00	0.00
ATOM	134	2HG1	VAL	8	-2.212	-0.501	5.570	1.00	0.00
ATOM	135	3HG1	VAL	8	-3.046	-1.676	4.524	1.00	0.00
ATOM	136	CG2	VAL	8	-0.084	-1.343	3.261	1.00	0.00
ATOM	137	1HG2	VAL	8	-0.222	-2.423	3.303	1.00	0.00
ATOM	138	2HG2	VAL	8	0.249	-1.057	2.263	1.00	0.00
ATOM	139	3HG2	VAL	8	0.667	-1.044	3.993	1.00	0.00
ATOM	140	QOG	VAL	8	-1.002	-1.461	4.142	1.00	0.00
ATOM	141	C	VAL	8	-2.309	0.609	1.545	1.00	0.00
ATOM	142	O	VAL	8	-1.898	0.653	0.379	1.00	0.00
ATOM	143	N	THRM	9	-2.750	1.684	2.172	1.00	0.00
ATOM	144	QB	THRM	9	-3.323	1.431	3.906	1.00	0.00
ATOM	145	CN	THRM	9	-3.209	1.481	3.564	1.00	0.00
ATOM	146	1HNB	THRM	9	-3.097	0.431	3.834	1.00	0.00
ATOM	147	2HNB	THRM	9	-2.614	2.095	4.238	1.00	0.00
ATOM	148	3HNB	THRM	9	-4.259	1.766	3.645	1.00	0.00
ATOM	149	CA	THRM	9	-2.783	2.996	1.530	1.00	0.00
ATOM	150	HA	THRM	9	-2.476	2.875	0.475	1.00	0.00
ATOM	151	CB	THRM	9	-4.230	3.592	1.570	1.00	0.00
ATOM	152	HB	THRM	9	-4.298	4.285	2.436	1.00	0.00
ATOM	153	QG2	THRM	9	-4.821	4.548	-0.036	1.00	0.00
ATOM	154	OG1	THRM	9	-5.189	2.558	1.739	1.00	0.00
ATOM	155	1HG	THRM	9	-5.141	2.015	0.946	1.00	0.00
ATOM	156	CG2	THRM	9	-4.694	4.348	0.306	1.00	0.00
ATOM	157	1HG2	THRM	9	-4.557	3.746	-0.611	1.00	0.00

ATOM	158	2HG2	THRM	9	-5.769	4.606	0.338	1.00	0.00
ATOM	159	3HG2	THRM	9	-4.136	5.292	0.165	1.00	0.00
ATOM	160	C	THRM	9	-1.798	3.940	2.179	1.00	0.00
ATOM	161	O	THRM	9	-2.159	4.884	2.852	1.00	0.00
ATOM	162	N	VALM	10	-0.521	3.676	1.972	1.00	0.00
ATOM	163	QB	VALM	10	-0.158	2.202	0.926	1.00	0.00
ATOM	164	CN	VALM	10	-0.231	2.493	1.132	1.00	0.00
ATOM	165	1HNB	VALM	10	-0.450	1.585	1.694	1.00	0.00
ATOM	166	2HNB	VALM	10	-0.847	2.523	0.235	1.00	0.00
ATOM	167	3HNB	VALM	10	0.823	2.499	0.848	1.00	0.00
ATOM	168	CA	VALM	10	0.541	4.504	2.537	1.00	0.00
ATOM	169	HA	VALM	10	0.192	5.552	2.581	1.00	0.00
ATOM	170	CB	VALM	10	0.888	4.008	3.996	1.00	0.00
ATOM	171	HB	VALM	10	1.793	3.368	3.919	1.00	0.00
ATOM	172	QG1	VALM	10	1.307	5.418	5.315	1.00	0.00
ATOM	173	QG2	VALM	10	-0.520	2.925	4.828	1.00	0.00
ATOM	174	CG1	VALM	10	1.218	5.112	5.039	1.00	0.00
ATOM	175	1HG1	VALM	10	1.356	4.703	6.058	1.00	0.00
ATOM	176	2HG1	VALM	10	2.139	5.670	4.783	1.00	0.00
ATOM	177	3HG1	VALM	10	0.427	5.882	5.103	1.00	0.00
ATOM	178	CG2	VALM	10	-0.223	3.150	4.648	1.00	0.00
ATOM	179	1HG2	VALM	10	-0.500	2.279	4.024	1.00	0.00
ATOM	180	2HG2	VALM	10	0.084	2.760	5.634	1.00	0.00
ATOM	181	3HG2	VALM	10	-1.145	3.735	4.825	1.00	0.00
ATOM	182	QQG	VALM	10	0.393	4.172	5.071	1.00	0.00
ATOM	183	C	VALM	10	1.768	4.485	1.657	1.00	0.00
ATOM	184	O	VALM	10	2.841	4.000	2.038	1.00	0.00
ATOM	185	N	ILEM	11	1.628	5.014	0.457	1.00	0.00
ATOM	186	QB	ILEM	11	-0.042	5.688	0.060	1.00	0.00
ATOM	187	CN	ILEM	11	0.288	5.555	0.139	1.00	0.00
ATOM	188	1HNB	ILEM	11	-0.375	5.412	0.992	1.00	0.00
ATOM	189	2HNB	ILEM	11	0.367	6.619	-0.084	1.00	0.00
ATOM	190	3HNB	ILEM	11	-0.120	5.033	-0.727	1.00	0.00
ATOM	191	CA	ILEM	11	2.729	5.065	-0.501	1.00	0.00
ATOM	192	HA	ILEM	11	2.385	5.648	-1.375	1.00	0.00
ATOM	193	CB	ILEM	11	3.995	5.790	0.114	1.00	0.00
ATOM	194	HB	ILEM	11	3.800	5.899	1.202	1.00	0.00
ATOM	195	QG2	ILEM	11	5.657	4.727	-0.098	1.00	0.00
ATOM	196	CG2	ILEM	11	5.305	4.959	-0.047	1.00	0.00
ATOM	197	1HG2	ILEM	11	5.105	3.888	-0.231	1.00	0.00
ATOM	198	2HG2	ILEM	11	5.917	5.275	-0.912	1.00	0.00
ATOM	199	3HG2	ILEM	11	5.949	5.017	0.850	1.00	0.00
ATOM	200	CG1	ILEM	11	4.258	7.225	-0.442	1.00	0.00
ATOM	201	2HG1	ILEM	11	4.077	7.238	-1.533	1.00	0.00
ATOM	202	QG1	ILEM	11	4.077	7.238	-1.533	1.00	0.00
ATOM	203	QD1	ILEM	11	3.144	8.644	0.308	1.00	0.00
ATOM	204	CD1	ILEM	11	3.376	8.347	0.145	1.00	0.00
ATOM	205	1HD1	ILEM	11	3.316	8.273	1.246	1.00	0.00
ATOM	206	2HD1	ILEM	11	3.778	9.350	-0.091	1.00	0.00
ATOM	207	3HD1	ILEM	11	2.338	8.310	-0.231	1.00	0.00
ATOM	208	C	ILEM	11	3.065	3.684	-1.012	1.00	0.00
ATOM	209	O	ILEM	11	2.751	2.659	-0.390	1.00	0.00
ATOM	210	N	PIPO	12	3.715	3.635	-2.160	1.00	0.00
ATOM	211	CE	PIPO	12	4.107	2.388	-2.779	1.00	0.00
ATOM	212	CA	PIPO	12	4.104	4.832	-2.890	1.00	0.00
ATOM	213	HA	PIPO	12	4.601	5.554	-2.242	1.00	0.00
ATOM	214	CB	PIPO	12	5.077	4.504	-4.038	1.00	0.00
ATOM	215	2HB	PIPO	12	5.345	5.423	-4.561	1.00	0.00
ATOM	216	3HB	PIPO	12	5.977	4.042	-3.633	1.00	0.00

ATOM	217	QB	PIPO	12	5.661	4.732	-4.097	1.00	0.00
ATOM	218	CG	PIPO	12	4.401	3.534	-5.023	1.00	0.00
ATOM	219	2HG	PIPO	12	5.090	3.302	-5.836	1.00	0.00
ATOM	220	3HG	PIPO	12	3.502	3.995	-5.431	1.00	0.00
ATOM	221	QG	PIPO	12	4.296	3.649	-5.633	1.00	0.00
ATOM	222	CD	PIPO	12	3.992	2.514	-4.309	1.00	0.00
ATOM	223	2HD	PIPO	12	4.288	1.574	-4.774	1.00	0.00
ATOM	224	3HD	PIPO	12	2.962	2.744	-4.579	1.00	0.00
ATOM	225	OD	PIPO	12	3.625	2.159	-4.677	1.00	0.00
ATOM	226	1HE	PIPO	12	5.138	2.157	-2.510	1.00	0.00
ATOM	227	2HE	PIPO	12	3.454	1.587	-2.430	1.00	0.00
ATOM	228	QE	PIPO	12	4.296	1.872	-2.470	1.00	0.00
ATOM	229	C	PIPO	12	2.888	5.538	-3.512	1.00	0.00
ATOM	230	O	PIPO	12	2.711	6.732	-3.243	1.00	0.00
ATOM	231	O1'	PHEO	13	2.075	4.873	-4.311	1.00	0.00
ATOM	232	CA	PHEO	13	0.663	5.222	-4.443	1.00	0.00
ATOM	233	HA	PHEO	13	0.552	6.117	-5.084	1.00	0.00
ATOM	234	CB	PHEO	13	0.078	5.506	-3.026	1.00	0.00
ATOM	235	2HB	PHEO	13	0.909	5.659	-2.309	1.00	0.00
ATOM	236	QB	PHEO	13	0.909	5.659	-2.309	1.00	0.00
ATOM	237	QD	PHEO	13	-1.010	6.816	-2.919	1.00	0.00
ATOM	238	QE	PHEO	13	-2.633	8.664	-2.816	1.00	0.00
ATOM	239	QR	PHEO	13	-2.147	8.110	-2.847	1.00	0.00
ATOM	240	CG	PHEO	13	-0.887	6.695	-2.910	1.00	0.00
ATOM	241	CD1	PHEO	13	-2.073	6.555	-2.181	1.00	0.00
ATOM	242	1HD	PHEO	13	-2.300	5.619	-1.686	1.00	0.00
ATOM	243	CE1	PHEO	13	-2.996	7.594	-2.133	1.00	0.00
ATOM	244	1HE	PHEO	13	-3.922	7.464	-1.592	1.00	0.00
ATOM	245	CZ	PHEO	13	-2.730	8.789	-2.799	1.00	0.00
ATOM	246	HZ	PHEO	13	-3.450	9.592	-2.765	1.00	0.00
ATOM	247	CE2	PHEO	13	-1.546	8.940	-3.517	1.00	0.00
ATOM	248	2HE	PHEO	13	-1.343	9.864	-4.040	1.00	0.00
ATOM	249	CD2	PHEO	13	-0.626	7.895	-3.575	1.00	0.00
ATOM	250	2HD	PHEO	13	0.280	8.013	-4.152	1.00	0.00
ATOM	251	C	PHEO	13	-0.121	4.086	-5.054	1.00	0.00
ATOM	252	O	PHEO	13	-0.195	3.920	-6.303	1.00	0.00
TER									
ENDMDL									
MODEL 6									
ATOM	1	N	VALM	1	-0.621	3.399	-4.503	1.00	0.00
ATOM	2	QB	VALM	1	-2.344	4.055	-4.491	1.00	0.00
ATOM	3	CN	VALM	1	-2.003	3.926	-4.494	1.00	0.00
ATOM	4	1HNB	VALM	1	-2.317	4.105	-3.465	1.00	0.00
ATOM	5	2HNB	VALM	1	-2.041	4.860	-5.052	1.00	0.00
ATOM	6	3HNB	VALM	1	-2.673	3.200	-4.955	1.00	0.00
ATOM	7	CA	VALM	1	-0.337	1.971	-4.394	1.00	0.00
ATOM	8	HA	VALM	1	-1.280	1.436	-4.177	1.00	0.00
ATOM	9	CB	VALM	1	0.265	1.439	-5.755	1.00	0.00
ATOM	10	HB	VALM	1	1.070	2.143	-6.055	1.00	0.00
ATOM	11	QG1	VALM	1	1.090	-0.356	-5.709	1.00	0.00
ATOM	12	QG2	VALM	1	-1.035	1.379	-7.224	1.00	0.00
ATOM	13	CG1	VALM	1	0.906	0.024	-5.720	1.00	0.00
ATOM	14	1HG1	VALM	1	0.162	-0.782	-5.867	1.00	0.00
ATOM	15	2HG1	VALM	1	1.684	-0.104	-6.496	1.00	0.00
ATOM	16	3HG1	VALM	1	1.422	-0.181	-4.763	1.00	0.00
ATOM	17	CG2	VALM	1	-0.757	1.395	-6.917	1.00	0.00
ATOM	18	1HG2	VALM	1	-0.380	1.897	-7.827	1.00	0.00
ATOM	19	2HG2	VALM	1	-1.013	0.357	-7.201	1.00	0.00
ATOM	20	3HG2	VALM	1	-1.713	1.881	-6.644	1.00	0.00

ATOM	21	QOG	VALM	1	0.027	0.512	-6.466	1.00	0.00
ATOM	22	C	VALM	1	0.604	1.692	-3.246	1.00	0.00
ATOM	23	O	VALM	1	1.586	2.413	-3.080	1.00	0.00
ATOM	24	N	PRO	2	0.284	0.631	-2.458	1.00	0.00
ATOM	25	CD	PRO	2	-0.872	-0.244	-2.626	1.00	0.00
ATOM	26	CA	PRO	2	1.114	0.265	-1.323	1.00	0.00
ATOM	27	HA	PRO	2	1.403	1.084	-0.826	1.00	0.00
ATOM	28	CB	PRO	2	0.236	-0.632	-0.466	1.00	0.00
ATOM	29	2HB	PRO	2	-0.163	-0.088	0.390	1.00	0.00
ATOM	30	QB	PRO	2	-0.163	-0.088	0.390	1.00	0.00
ATOM	31	CG	PRO	2	-0.884	-1.112	-1.377	1.00	0.00
ATOM	32	2HG	PRO	2	-1.846	-1.038	-0.870	1.00	0.00
ATOM	33	QG	PRO	2	-1.846	-1.038	-0.870	1.00	0.00
ATOM	34	2HD	PRO	2	-1.794	0.329	-2.718	1.00	0.00
ATOM	35	QD	PRO	2	-1.794	0.329	-2.718	1.00	0.00
ATOM	36	C	PRO	2	2.402	-0.420	-1.783	1.00	0.00
ATOM	37	O	PRO	2	2.460	-0.962	-2.886	1.00	0.00
ATOM	38	N	ILE	3	3.401	-0.375	-0.915	1.00	0.00
ATOM	39	H	ILE	3	3.345	0.067	-0.020	1.00	0.00
ATOM	40	CA	ILE	3	4.684	-0.986	-1.219	1.00	0.00
ATOM	41	HA	ILE	3	4.705	-1.188	-2.290	1.00	0.00
ATOM	42	CB	ILE	3	5.825	-0.012	-0.919	1.00	0.00
ATOM	43	HB	ILE	3	6.518	-0.498	-0.232	1.00	0.00
ATOM	44	QG2	ILE	3	6.796	0.400	-2.492	1.00	0.00
ATOM	45	CG2	ILE	3	6.610	0.321	-2.190	1.00	0.00
ATOM	46	1HG2	ILE	3	6.998	1.337	-2.122	1.00	0.00
ATOM	47	2HG2	ILE	3	7.439	-0.378	-2.299	1.00	0.00
ATOM	48	3HG2	ILE	3	5.951	0.241	-3.055	1.00	0.00
ATOM	49	CG1	ILE	3	5.304	1.246	-0.221	1.00	0.00
ATOM	50	2HG1	ILE	3	4.354	1.545	-0.665	1.00	0.00
ATOM	51	QG1	ILE	3	4.354	1.545	-0.665	1.00	0.00
ATOM	52	QD1	ILE	3	5.076	0.947	1.634	1.00	0.00
ATOM	53	CD1	ILE	3	5.120	1.005	1.278	1.00	0.00
ATOM	54	1HD1	ILE	3	4.056	0.995	1.517	1.00	0.00
ATOM	55	2HD1	ILE	3	5.562	0.045	1.549	1.00	0.00
ATOM	56	3HD1	ILE	3	5.610	1.801	1.837	1.00	0.00
ATOM	57	C	ILE	3	4.801	-2.317	-0.473	1.00	0.00
ATOM	58	O	ILE	3	5.303	-3.332	-0.977	1.00	0.00
ATOM	59	N	PIP	4	4.323	-2.310	0.757	1.00	0.00
ATOM	60	CE	PIP	4	3.734	-1.133	1.357	1.00	0.00
ATOM	61	CA	PIP	4	4.364	-3.482	1.619	1.00	0.00
ATOM	62	HA	PIP	4	5.356	-3.935	1.634	1.00	0.00
ATOM	63	CB	PIP	4	3.999	-3.132	3.073	1.00	0.00
ATOM	64	2HB	PIP	4	4.041	-4.032	3.685	1.00	0.00
ATOM	65	3HB	PIP	4	4.706	-2.398	3.458	1.00	0.00
ATOM	66	QB	PIP	4	4.373	-3.215	3.572	1.00	0.00
ATOM	67	CG	PIP	4	2.576	-2.547	3.118	1.00	0.00
ATOM	68	2HG	PIP	4	2.317	-2.298	4.148	1.00	0.00
ATOM	69	3HG	PIP	4	1.867	-3.281	2.734	1.00	0.00
ATOM	70	QG	PIP	4	2.092	-2.790	3.441	1.00	0.00
ATOM	71	CD	PIP	4	2.563	-1.551	2.267	1.00	0.00
ATOM	72	2HD	PIP	4	2.119	-0.663	2.718	1.00	0.00
ATOM	73	3HD	PIP	4	1.810	-2.072	1.674	1.00	0.00
ATOM	74	QD	PIP	4	1.965	-1.367	2.196	1.00	0.00
ATOM	75	1HE	PIP	4	4.484	-0.612	1.949	1.00	0.00
ATOM	76	2HE	PIP	4	3.365	-0.472	0.572	1.00	0.00
ATOM	77	QE	PIP	4	3.925	-0.542	1.261	1.00	0.00
ATOM	78	C	PIP	4	3.377	-4.566	1.150	1.00	0.00
ATOM	79	O	PIP	4	2.730	-4.290	0.140	1.00	0.00

ATOM	80	N	ALA	5	3.276	-5.705	1.819	1.00	0.00
ATOM	81	H	ALA	5	3.806	-5.920	2.639	1.00	0.00
ATOM	82	CA	ALA	5	2.359	-6.746	1.389	1.00	0.00
ATOM	83	HA	ALA	5	2.781	-7.215	0.502	1.00	0.00
ATOM	84	QB	ALA	5	2.199	-8.050	2.752	1.00	0.00
ATOM	85	CB	ALA	5	2.230	-7.800	2.491	1.00	0.00
ATOM	86	1HB	ALA	5	2.803	-8.685	2.215	1.00	0.00
ATOM	87	2HB	ALA	5	2.614	-7.395	3.427	1.00	0.00
ATOM	88	3HB	ALA	5	1.181	-8.070	2.614	1.00	0.00
ATOM	89	C	ALA	5	1.012	-6.115	1.026	1.00	0.00
ATOM	90	O	ALA	5	0.677	-5.036	1.513	1.00	0.00
ATOM	91	N	PRO	6	0.258	-6.833	0.152	1.00	0.00
ATOM	92	CD	PRO	6	0.624	-8.115	-0.446	1.00	0.00
ATOM	93	CA	PRO	6	-1.043	-6.355	-0.283	1.00	0.00
ATOM	94	HA	PRO	6	-1.008	-5.373	-0.468	1.00	0.00
ATOM	95	CB	PRO	6	-1.359	-7.155	-1.536	1.00	0.00
ATOM	96	2HB	PRO	6	-1.180	-6.561	-2.433	1.00	0.00
ATOM	97	QB	PRO	6	-1.180	-6.561	-2.433	1.00	0.00
ATOM	98	CG	PRO	6	-0.445	-8.369	-1.496	1.00	0.00
ATOM	99	2HG	PRO	6	0.012	-8.536	-2.472	1.00	0.00
ATOM	100	QG	PRO	6	0.012	-8.536	-2.472	1.00	0.00
ATOM	101	2HD	PRO	6	1.617	-8.074	-0.893	1.00	0.00
ATOM	102	QD	PRO	6	1.617	-8.074	-0.893	1.00	0.00
ATOM	103	C	PRO	6	-2.089	-6.534	0.819	1.00	0.00
ATOM	104	O	PRO	6	-2.431	-7.643	1.250	1.00	0.00
ATOM	105	N	THRM	7	-2.608	-5.414	1.285	1.00	0.00
ATOM	106	QB	THRM	7	-3.871	-5.598	2.614	1.00	0.00
ATOM	107	CN	THRM	7	-3.622	-5.562	2.352	1.00	0.00
ATOM	108	1HNB	THRM	7	-3.766	-6.620	2.573	1.00	0.00
ATOM	109	2HNB	THRM	7	-3.282	-5.046	3.250	1.00	0.00
ATOM	110	3HNB	THRM	7	-4.566	-5.129	2.020	1.00	0.00
ATOM	111	CA	THRM	7	-2.205	-4.105	0.776	1.00	0.00
ATOM	112	HA	THRM	7	-1.102	-4.086	0.700	1.00	0.00
ATOM	113	CB	THRM	7	-2.812	-3.857	-0.646	1.00	0.00
ATOM	114	HB	THRM	7	-1.984	-3.595	-1.338	1.00	0.00
ATOM	115	QG2	THRM	7	-3.826	-5.339	-1.433	1.00	0.00
ATOM	116	OG1	THRM	7	-3.735	-2.775	-0.611	1.00	0.00
ATOM	117	1HG	THRM	7	-3.258	-2.031	-0.229	1.00	0.00
ATOM	118	CG2	THRM	7	-3.610	-5.026	-1.263	1.00	0.00
ATOM	119	1HG2	THRM	7	-4.531	-4.681	-1.768	1.00	0.00
ATOM	120	2HG2	THRM	7	-3.033	-5.572	-2.032	1.00	0.00
ATOM	121	3HG2	THRM	7	-3.913	-5.766	-0.498	1.00	0.00
ATOM	122	C	THRM	7	-2.610	-3.007	1.729	1.00	0.00
ATOM	123	O	THRM	7	-3.412	-3.250	2.629	1.00	0.00
ATOM	124	N	VAL	8	-2.053	-1.822	1.520	1.00	0.00
ATOM	125	H	VAL	8	-1.401	-1.632	0.787	1.00	0.00
ATOM	126	CA	VAL	8	-2.366	-0.688	2.372	1.00	0.00
ATOM	127	HA	VAL	8	-3.380	-0.829	2.750	1.00	0.00
ATOM	128	CB	VAL	8	-1.416	-0.656	3.571	1.00	0.00
ATOM	129	HB	VAL	8	-1.190	0.387	3.792	1.00	0.00
ATOM	130	QG1	VAL	8	-2.230	-1.412	5.104	1.00	0.00
ATOM	131	QG2	VAL	8	0.214	-1.530	3.167	1.00	0.00
ATOM	132	CG1	VAL	8	-2.074	-1.267	4.810	1.00	0.00
ATOM	133	1HG1	VAL	8	-2.326	-0.475	5.515	1.00	0.00
ATOM	134	2HG1	VAL	8	-2.981	-1.794	4.515	1.00	0.00
ATOM	135	3HG1	VAL	8	-1.382	-1.967	5.280	1.00	0.00
ATOM	136	CG2	VAL	8	-0.098	-1.362	3.245	1.00	0.00
ATOM	137	1HG2	VAL	8	-0.249	-2.441	3.269	1.00	0.00
ATOM	138	2HG2	VAL	8	0.237	-1.064	2.251	1.00	0.00

ATOM	139	3HG2	VAL	8	0.656	-1.084	3.981	1.00	0.00
ATOM	140	QQG	VAL	8	-1.008	-1.471	4.135	1.00	0.00
ATOM	141	C	VAL	8	-2.324	0.596	1.542	1.00	0.00
ATOM	142	O	VAL	8	-1.916	0.630	0.374	1.00	0.00
ATOM	143	N	THRM	9	-2.758	1.677	2.162	1.00	0.00
ATOM	144	QB	THRM	9	-3.328	1.438	3.899	1.00	0.00
ATOM	145	CN	THRM	9	-3.215	1.485	3.556	1.00	0.00
ATOM	146	1HNB	THRM	9	-3.107	0.436	3.834	1.00	0.00
ATOM	147	2HNB	THRM	9	-2.614	2.102	4.225	1.00	0.00
ATOM	148	3HNB	THRM	9	-4.263	1.776	3.639	1.00	0.00
ATOM	149	CA	THRM	9	-2.784	2.984	1.512	1.00	0.00
ATOM	150	HA	THRM	9	-2.472	2.856	0.460	1.00	0.00
ATOM	151	CB	THRM	9	-4.232	3.581	1.538	1.00	0.00
ATOM	152	HB	THRM	9	-4.349	4.173	2.471	1.00	0.00
ATOM	153	QG2	THRM	9	-4.728	4.721	0.022	1.00	0.00
ATOM	154	OG1	THRM	9	-5.201	2.540	1.535	1.00	0.00
ATOM	155	1HG	THRM	9	-5.973	2.893	1.988	1.00	0.00
ATOM	156	CG2	THRM	9	-4.625	4.477	0.343	1.00	0.00
ATOM	157	1HG2	THRM	9	-4.867	5.508	0.658	1.00	0.00
ATOM	158	2HG2	THRM	9	-3.809	4.574	-0.398	1.00	0.00
ATOM	159	3HG2	THRM	9	-5.507	4.082	-0.194	1.00	0.00
ATOM	160	C	THRM	9	-1.805	3.932	2.162	1.00	0.00
ATOM	161	O	THRM	9	-2.171	4.881	2.826	1.00	0.00
ATOM	162	N	VALM	10	-0.526	3.667	1.964	1.00	0.00
ATOM	163	QB	VALM	10	-0.158	2.186	0.930	1.00	0.00
ATOM	164	CN	VALM	10	-0.231	2.478	1.134	1.00	0.00
ATOM	165	1HNB	VALM	10	-0.843	2.503	0.232	1.00	0.00
ATOM	166	2HNB	VALM	10	0.824	2.481	0.858	1.00	0.00
ATOM	167	3HNB	VALM	10	-0.456	1.574	1.700	1.00	0.00
ATOM	168	CA	VALM	10	0.532	4.497	2.532	1.00	0.00
ATOM	169	HA	VALM	10	0.179	5.545	2.574	1.00	0.00
ATOM	170	CB	VALM	10	0.877	4.003	3.992	1.00	0.00
ATOM	171	HB	VALM	10	1.790	3.374	3.918	1.00	0.00
ATOM	172	QG1	VALM	10	1.282	5.411	5.319	1.00	0.00
ATOM	173	QG2	VALM	10	-0.517	2.892	4.811	1.00	0.00
ATOM	174	CG1	VALM	10	1.188	5.109	5.038	1.00	0.00
ATOM	175	1HG1	VALM	10	0.373	5.234	5.776	1.00	0.00
ATOM	176	2HG1	VALM	10	2.114	4.901	5.608	1.00	0.00
ATOM	177	3HG1	VALM	10	1.359	6.098	4.572	1.00	0.00
ATOM	178	CG2	VALM	10	-0.227	3.130	4.636	1.00	0.00
ATOM	179	1HG2	VALM	10	-1.229	3.588	4.546	1.00	0.00
ATOM	180	2HG2	VALM	10	-0.282	2.129	4.172	1.00	0.00
ATOM	181	3HG2	VALM	10	-0.040	2.959	5.714	1.00	0.00
ATOM	182	QQG	VALM	10	0.383	4.151	5.065	1.00	0.00
ATOM	183	C	VALM	10	1.761	4.481	1.655	1.00	0.00
ATOM	184	O	VALM	10	2.832	3.995	2.036	1.00	0.00
ATOM	185	N	ILEM	11	1.624	5.017	0.455	1.00	0.00
ATOM	186	QB	ILEM	11	-0.045	5.692	0.059	1.00	0.00
ATOM	187	CN	ILEM	11	0.284	5.560	0.137	1.00	0.00
ATOM	188	1HNB	ILEM	11	-0.380	5.412	0.989	1.00	0.00
ATOM	189	2HNB	ILEM	11	0.365	6.623	-0.080	1.00	0.00
ATOM	190	3HNB	ILEM	11	-0.121	5.041	-0.732	1.00	0.00
ATOM	191	CA	ILEM	11	2.727	5.071	-0.499	1.00	0.00
ATOM	192	HA	ILEM	11	2.383	5.652	-1.375	1.00	0.00
ATOM	193	CB	ILEM	11	3.988	5.800	0.120	1.00	0.00
ATOM	194	HB	ILEM	11	3.795	5.902	1.208	1.00	0.00
ATOM	195	QG2	ILEM	11	5.663	4.756	-0.086	1.00	0.00
ATOM	196	CG2	ILEM	11	5.305	4.981	-0.050	1.00	0.00
ATOM	197	1HG2	ILEM	11	5.926	4.990	0.864	1.00	0.00



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ATOM	198	2HG2	ILEM	11	5.128	3.910	-0.249	1.00	0.00
ATOM	199	3HG2	ILEM	11	5.934	5.369	-0.873	1.00	0.00
ATOM	200	CG1	ILEM	11	4.240	7.242	-0.428	1.00	0.00
ATOM	201	2HG1	ILEM	11	4.070	7.257	-1.521	1.00	0.00
ATOM	202	QG1	ILEM	11	4.070	7.257	-1.521	1.00	0.00
ATOM	203	QD1	ILEM	11	3.094	8.642	0.308	1.00	0.00
ATOM	204	CD1	ILEM	11	3.340	8.351	0.154	1.00	0.00
ATOM	205	1HD1	ILEM	11	2.287	8.212	-0.152	1.00	0.00
ATOM	206	2HD1	ILEM	11	3.358	8.355	1.261	1.00	0.00
ATOM	207	3HD1	ILEM	11	3.637	9.359	-0.185	1.00	0.00
ATOM	208	C	ILEM	11	3.070	3.691	-1.008	1.00	0.00
ATOM	209	O	ILEM	11	2.756	2.665	-0.387	1.00	0.00
ATOM	210	N	PIPO	12	3.725	3.644	-2.153	1.00	0.00
ATOM	211	CE	PIPO	12	4.124	2.397	-2.769	1.00	0.00
ATOM	212	CA	PIPO	12	4.113	4.841	-2.883	1.00	0.00
ATOM	213	HA	PIPO	12	4.605	5.565	-2.233	1.00	0.00
ATOM	214	CB	PIPO	12	5.092	4.516	-4.026	1.00	0.00
ATOM	215	2HB	PIPO	12	5.360	5.436	-4.548	1.00	0.00
ATOM	216	3HB	PIPO	12	5.991	4.057	-3.616	1.00	0.00
ATOM	217	QB	PIPO	12	5.675	4.746	-4.082	1.00	0.00
ATOM	218	CG	PIPO	12	4.423	3.543	-5.014	1.00	0.00
ATOM	219	2HG	PIPO	12	5.116	3.314	-5.824	1.00	0.00
ATOM	220	3HG	PIPO	12	3.524	4.002	-5.425	1.00	0.00
ATOM	221	QG	PIPO	12	4.320	3.658	-5.624	1.00	0.00
ATOM	222	CD	PIPO	12	4.015	2.522	-4.301	1.00	0.00
ATOM	223	2HD	PIPO	12	4.315	1.583	-4.765	1.00	0.00
ATOM	224	3HD	PIPO	12	2.985	2.749	-4.574	1.00	0.00
ATOM	225	QD	PIPO	12	3.650	2.166	-4.670	1.00	0.00
ATOM	226	1HE	PIPO	12	5.154	2.170	-2.496	1.00	0.00
ATOM	227	2HE	PIPO	12	3.472	1.595	-2.424	1.00	0.00
ATOM	228	QE	PIPO	12	4.313	1.882	-2.460	1.00	0.00
ATOM	229	C	PIPO	12	2.897	5.543	-3.509	1.00	0.00
ATOM	230	O	PIPO	12	2.719	6.739	-3.247	1.00	0.00
ATOM	231	O1'	PHEO	13	2.086	4.873	-4.305	1.00	0.00
ATOM	232	CA	PHEO	13	0.676	5.229	-4.450	1.00	0.00
ATOM	233	HA	PHEO	13	0.575	6.127	-5.087	1.00	0.00
ATOM	234	CB	PHEO	13	0.079	5.507	-3.038	1.00	0.00
ATOM	235	2HB	PHEO	13	0.902	5.683	-2.318	1.00	0.00
ATOM	236	QB	PHEO	13	0.902	5.683	-2.318	1.00	0.00
ATOM	237	QD	PHEO	13	-1.007	6.817	-2.901	1.00	0.00
ATOM	238	QE	PHEO	13	-2.519	8.744	-2.651	1.00	0.00
ATOM	239	QR	PHEO	13	-2.066	8.167	-2.726	1.00	0.00
ATOM	240	CG	PHEO	13	-0.913	6.677	-2.933	1.00	0.00
ATOM	241	CD1	PHEO	13	-0.617	7.892	-3.560	1.00	0.00
ATOM	242	1HD	PHEO	13	0.297	8.002	-4.130	1.00	0.00
ATOM	243	CE1	PHEO	13	-1.465	8.984	-3.410	1.00	0.00
ATOM	244	1HE	PHEO	13	-1.212	9.927	-3.873	1.00	0.00
ATOM	245	CZ	PHEO	13	-2.624	8.863	-2.646	1.00	0.00
ATOM	246	HZ	PHEO	13	-3.277	9.714	-2.524	1.00	0.00
ATOM	247	CE2	PHEO	13	-2.930	7.652	-2.028	1.00	0.00
ATOM	248	2HE	PHEO	13	-3.826	7.561	-1.430	1.00	0.00
ATOM	249	CD2	PHEO	13	-2.077	6.561	-2.169	1.00	0.00
ATOM	250	2HD	PHEO	13	-2.311	5.631	-1.671	1.00	0.00
ATOM	251	C	PHEO	13	-0.105	4.097	-5.073	1.00	0.00
ATOM	252	O	PHEO	13	-0.170	3.939	-6.325	1.00	0.00
TER									
ENDMDL									
MODEL				7					
ATOM	1	N	VALM	1	0.127	3.249	-5.031	1.00	0.00

ATOM	2	QB	VALM	1	1.229	3.037	-6.493	1.00	0.00
ATOM	3	CN	VALM	1	1.012	3.078	-6.204	1.00	0.00
ATOM	4	1HNB	VALM	1	2.052	3.109	-5.882	1.00	0.00
ATOM	5	2HNB	VALM	1	0.806	2.119	-6.678	1.00	0.00
ATOM	6	3HNB	VALM	1	0.829	3.882	-6.918	1.00	0.00
ATOM	7	CA	VALM	1	-0.354	2.112	-4.252	1.00	0.00
ATOM	8	HA	VALM	1	-1.321	2.380	-3.788	1.00	0.00
ATOM	9	CB	VALM	1	-0.558	0.862	-5.198	1.00	0.00
ATOM	10	HB	VALM	1	-1.413	0.280	-4.791	1.00	0.00
ATOM	11	QG1	VALM	1	-0.991	1.244	-7.088	1.00	0.00
ATOM	12	QG2	VALM	1	0.985	-0.347	-5.256	1.00	0.00
ATOM	13	CG1	VALM	1	-0.901	1.169	-6.682	1.00	0.00
ATOM	14	1HG1	VALM	1	-1.347	2.173	-6.814	1.00	0.00
ATOM	15	2HG1	VALM	1	-0.011	1.118	-7.338	1.00	0.00
ATOM	16	3HG1	VALM	1	-1.613	0.439	-7.111	1.00	0.00
ATOM	17	CG2	VALM	1	0.660	-0.091	-5.249	1.00	0.00
ATOM	18	1HG2	VALM	1	1.100	-0.154	-6.262	1.00	0.00
ATOM	19	2HG2	VALM	1	1.464	0.231	-4.564	1.00	0.00
ATOM	20	3HG2	VALM	1	0.391	-1.119	-4.942	1.00	0.00
ATOM	21	QQG	VALM	1	-0.003	0.448	-6.172	1.00	0.00
ATOM	22	C	VALM	1	0.599	1.784	-3.127	1.00	0.00
ATOM	23	O	VALM	1	1.599	2.480	-2.958	1.00	0.00
ATOM	24	N	PRO	2	0.269	0.710	-2.361	1.00	0.00
ATOM	25	CD	PRO	2	-0.908	-0.136	-2.531	1.00	0.00
ATOM	26	CA	PRO	2	1.109	0.298	-1.249	1.00	0.00
ATOM	27	HA	PRO	2	1.424	1.098	-0.736	1.00	0.00
ATOM	28	CB	PRO	2	0.226	-0.602	-0.401	1.00	0.00
ATOM	29	2HB	PRO	2	-0.147	-0.071	0.475	1.00	0.00
ATOM	30	QB	PRO	2	-0.147	-0.071	0.475	1.00	0.00
ATOM	31	CG	PRO	2	-0.918	-1.034	-1.304	1.00	0.00
ATOM	32	2HG	PRO	2	-1.870	-0.954	-0.779	1.00	0.00
ATOM	33	QG	PRO	2	-1.870	-0.954	-0.779	1.00	0.00
ATOM	34	2HD	PRO	2	-1.819	0.458	-2.594	1.00	0.00
ATOM	35	QD	PRO	2	-1.819	0.458	-2.594	1.00	0.00
ATOM	36	C	PRO	2	2.374	-0.402	-1.748	1.00	0.00
ATOM	37	O	PRO	2	2.396	-0.937	-2.856	1.00	0.00
ATOM	38	N	ILE	3	3.397	-0.378	-0.906	1.00	0.00
ATOM	39	H	ILE	3	3.371	0.059	-0.006	1.00	0.00
ATOM	40	CA	ILE	3	4.663	-1.004	-1.247	1.00	0.00
ATOM	41	HA	ILE	3	4.649	-1.205	-2.318	1.00	0.00
ATOM	42	CB	ILE	3	5.825	-0.044	-0.982	1.00	0.00
ATOM	43	HB	ILE	3	6.536	-0.544	-0.324	1.00	0.00
ATOM	44	QG2	ILE	3	6.742	0.370	-2.585	1.00	0.00
ATOM	45	CG2	ILE	3	6.566	0.291	-2.277	1.00	0.00
ATOM	46	1HG2	ILE	3	5.872	0.242	-3.117	1.00	0.00
ATOM	47	2HG2	ILE	3	6.982	1.296	-2.208	1.00	0.00
ATOM	48	3HG2	ILE	3	7.372	-0.426	-2.431	1.00	0.00
ATOM	49	CG1	ILE	3	5.342	1.213	-0.255	1.00	0.00
ATOM	50	2HG1	ILE	3	4.381	1.526	-0.663	1.00	0.00
ATOM	51	QG1	ILE	3	4.381	1.526	-0.663	1.00	0.00
ATOM	52	QD1	ILE	3	5.175	0.900	1.604	1.00	0.00
ATOM	53	CD1	ILE	3	5.207	0.960	1.247	1.00	0.00
ATOM	54	1HD1	ILE	3	5.639	-0.010	1.493	1.00	0.00
ATOM	55	2HD1	ILE	3	5.733	1.741	1.796	1.00	0.00
ATOM	56	3HD1	ILE	3	4.152	0.968	1.524	1.00	0.00
ATOM	57	C	ILE	3	4.784	-2.337	-0.506	1.00	0.00
ATOM	58	O	ILE	3	5.263	-3.356	-1.023	1.00	0.00
ATOM	59	N	PIP	4	4.338	-2.326	0.737	1.00	0.00
ATOM	60	CE	PIP	4	3.777	-1.144	1.351	1.00	0.00

ATOM	61	CA	PIP	4	4.389	-3.499	1.596	1.00	0.00
ATOM	62	HA	PIP	4	5.377	-3.962	1.586	1.00	0.00
ATOM	63	CB	PIP	4	4.066	-3.146	3.060	1.00	0.00
ATOM	64	2HB	PIP	4	4.114	-4.047	3.671	1.00	0.00
ATOM	65	3HB	PIP	4	4.790	-2.419	3.427	1.00	0.00
ATOM	66	QB	PIP	4	4.452	-3.233	3.549	1.00	0.00
ATOM	67	CG	PIP	4	2.650	-2.545	3.142	1.00	0.00
ATOM	68	2HG	PIP	4	2.422	-2.295	4.178	1.00	0.00
ATOM	69	3HG	PIP	4	1.925	-3.272	2.776	1.00	0.00
ATOM	70	QG	PIP	4	2.173	-2.784	3.477	1.00	0.00
ATOM	71	CD	PIP	4	2.626	-1.549	2.292	1.00	0.00
ATOM	72	2HD	PIP	4	2.202	-0.658	2.755	1.00	0.00
ATOM	73	3HD	PIP	4	1.853	-2.062	1.719	1.00	0.00
ATOM	74	QD	PIP	4	2.028	-1.360	2.237	1.00	0.00
ATOM	75	1HE	PIP	4	4.548	-0.630	1.925	1.00	0.00
ATOM	76	2HE	PIP	4	3.395	-0.477	0.578	1.00	0.00
ATOM	77	QE	PIP	4	3.972	-0.554	1.251	1.00	0.00
ATOM	78	C	PIP	4	3.380	-4.572	1.153	1.00	0.00
ATOM	79	O	PIP	4	2.688	-4.276	0.180	1.00	0.00
ATOM	80	N	ALA	5	3.307	-5.723	1.804	1.00	0.00
ATOM	81	H	ALA	5	3.874	-5.956	2.594	1.00	0.00
ATOM	82	CA	ALA	5	2.368	-6.754	1.397	1.00	0.00
ATOM	83	HA	ALA	5	2.771	-7.239	0.508	1.00	0.00
ATOM	84	QB	ALA	5	2.210	-8.044	2.774	1.00	0.00
ATOM	85	CB	ALA	5	2.240	-7.797	2.510	1.00	0.00
ATOM	86	1HB	ALA	5	2.930	-7.552	3.318	1.00	0.00
ATOM	87	2HB	ALA	5	1.219	-7.798	2.891	1.00	0.00
ATOM	88	3HB	ALA	5	2.480	-8.783	2.113	1.00	0.00
ATOM	89	C	ALA	5	1.026	-6.107	1.047	1.00	0.00
ATOM	90	O	ALA	5	0.694	-5.042	1.564	1.00	0.00
ATOM	91	N	PRO	6	0.273	-6.796	0.150	1.00	0.00
ATOM	92	CD	PRO	6	0.634	-8.061	-0.484	1.00	0.00
ATOM	93	CA	PRO	6	-1.025	-6.300	-0.275	1.00	0.00
ATOM	94	HA	PRO	6	-0.984	-5.313	-0.433	1.00	0.00
ATOM	95	CB	PRO	6	-1.339	-7.061	-1.553	1.00	0.00
ATOM	96	2HB	PRO	6	-1.155	-6.444	-2.432	1.00	0.00
ATOM	97	QB	PRO	6	-1.155	-6.444	-2.432	1.00	0.00
ATOM	98	CG	PRO	6	-0.431	-8.281	-1.545	1.00	0.00
ATOM	99	2HG	PRO	6	0.028	-8.421	-2.523	1.00	0.00
ATOM	100	QG	PRO	6	0.028	-8.421	-2.523	1.00	0.00
ATOM	101	2HD	PRO	6	1.630	-8.013	-0.925	1.00	0.00
ATOM	102	QD	PRO	6	1.630	-8.013	-0.925	1.00	0.00
ATOM	103	C	PRO	6	-2.076	-6.506	0.817	1.00	0.00
ATOM	104	O	PRO	6	-2.368	-7.620	1.269	1.00	0.00
ATOM	105	N	THRM	7	-2.655	-5.402	1.249	1.00	0.00
ATOM	106	QB	THRM	7	-3.927	-5.620	2.567	1.00	0.00
ATOM	107	CN	THRM	7	-3.676	-5.577	2.307	1.00	0.00
ATOM	108	1HNB	THRM	7	-3.770	-6.635	2.551	1.00	0.00
ATOM	109	2HNB	THRM	7	-3.375	-5.025	3.198	1.00	0.00
ATOM	110	3HNB	THRM	7	-4.636	-5.199	1.954	1.00	0.00
ATOM	111	CA	THRM	7	-2.311	-4.088	0.716	1.00	0.00
ATOM	112	HA	THRM	7	-1.216	-4.046	0.574	1.00	0.00
ATOM	113	CB	THRM	7	-3.007	-3.856	-0.667	1.00	0.00
ATOM	114	HB	THRM	7	-3.508	-2.865	-0.645	1.00	0.00
ATOM	115	QG2	THRM	7	-1.846	-3.926	-2.245	1.00	0.00
ATOM	116	OG1	THRM	7	-3.990	-4.856	-0.904	1.00	0.00
ATOM	117	1HG	THRM	7	-4.712	-4.417	-1.363	1.00	0.00
ATOM	118	CG2	THRM	7	-2.093	-3.909	-1.911	1.00	0.00
ATOM	119	1HG2	THRM	7	-1.023	-3.935	-1.639	1.00	0.00

ATOM	120	2HG2	THRM	7	-2.269	-4.812	-2.526	1.00	0.00
ATOM	121	3HG2	THRM	7	-2.245	-3.033	-2.569	1.00	0.00
ATOM	122	C	THRM	7	-2.683	-2.995	1.689	1.00	0.00
ATOM	123	O	THRM	7	-3.521	-3.218	2.561	1.00	0.00
ATOM	124	N	VAL	8	-2.057	-1.837	1.530	1.00	0.00
ATOM	125	H	VAL	8	-1.376	-1.664	0.818	1.00	0.00
ATOM	126	CA	VAL	8	-2.331	-0.711	2.406	1.00	0.00
ATOM	127	HA	VAL	8	-3.329	-0.852	2.821	1.00	0.00
ATOM	128	CB	VAL	8	-1.334	-0.697	3.566	1.00	0.00
ATOM	129	HB	VAL	8	-1.113	0.343	3.806	1.00	0.00
ATOM	130	QG1	VAL	8	-2.077	-1.505	5.109	1.00	0.00
ATOM	131	QG2	VAL	8	0.290	-1.538	3.076	1.00	0.00
ATOM	132	CG1	VAL	8	-1.934	-1.350	4.813	1.00	0.00
ATOM	133	1HG1	VAL	8	-1.922	-0.637	5.638	1.00	0.00
ATOM	134	2HG1	VAL	8	-2.961	-1.650	4.607	1.00	0.00
ATOM	135	3HG1	VAL	8	-1.347	-2.227	5.083	1.00	0.00
ATOM	136	CG2	VAL	8	-0.021	-1.377	3.171	1.00	0.00
ATOM	137	1HG2	VAL	8	0.331	-0.963	2.225	1.00	0.00
ATOM	138	2HG2	VAL	8	0.726	-1.203	3.944	1.00	0.00
ATOM	139	3HG2	VAL	8	-0.186	-2.449	3.058	1.00	0.00
ATOM	140	QQG	VAL	8	-0.893	-1.521	4.093	1.00	0.00
ATOM	141	C	VAL	8	-2.315	0.581	1.588	1.00	0.00
ATOM	142	O	VAL	8	-1.938	0.629	0.411	1.00	0.00
ATOM	143	N	THRM	9	-2.734	1.654	2.232	1.00	0.00
ATOM	144	QB	THRM	9	-3.256	1.394	3.981	1.00	0.00
ATOM	145	CN	THRM	9	-3.153	1.445	3.636	1.00	0.00
ATOM	146	1HNB	THRM	9	-3.035	0.394	3.899	1.00	0.00
ATOM	147	2HNB	THRM	9	-2.536	2.056	4.295	1.00	0.00
ATOM	148	3HNB	THRM	9	-4.198	1.732	3.750	1.00	0.00
ATOM	149	CA	THRM	9	-2.782	2.968	1.598	1.00	0.00
ATOM	150	HA	THRM	9	-2.496	2.853	0.536	1.00	0.00
ATOM	151	CB	THRM	9	-4.231	3.560	1.666	1.00	0.00
ATOM	152	HB	THRM	9	-4.232	4.543	1.148	1.00	0.00
ATOM	153	QG2	THRM	9	-5.658	2.454	0.903	1.00	0.00
ATOM	154	OG1	THRM	9	-4.622	3.760	3.019	1.00	0.00
ATOM	155	1HG	THRM	9	-3.992	4.385	3.390	1.00	0.00
ATOM	156	CG2	THRM	9	-5.354	2.691	1.063	1.00	0.00
ATOM	157	1HG2	THRM	9	-5.087	1.619	1.044	1.00	0.00
ATOM	158	2HG2	THRM	9	-6.295	2.754	1.642	1.00	0.00
ATOM	159	3HG2	THRM	9	-5.591	2.989	0.024	1.00	0.00
ATOM	160	C	THRM	9	-1.789	3.912	2.232	1.00	0.00
ATOM	161	O	THRM	9	-2.141	4.856	2.911	1.00	0.00
ATOM	162	N	VALM	10	-0.515	3.651	2.004	1.00	0.00
ATOM	163	QB	VALM	10	-0.168	2.179	0.950	1.00	0.00
ATOM	164	CN	VALM	10	-0.237	2.469	1.159	1.00	0.00
ATOM	165	1HNB	VALM	10	0.812	2.474	0.861	1.00	0.00
ATOM	166	2HNB	VALM	10	-0.450	1.561	1.720	1.00	0.00
ATOM	167	3HNB	VALM	10	-0.866	2.503	0.268	1.00	0.00
ATOM	168	CA	VALM	10	0.554	4.479	2.554	1.00	0.00
ATOM	169	HA	VALM	10	0.200	5.524	2.617	1.00	0.00
ATOM	170	CB	VALM	10	0.938	3.969	4.000	1.00	0.00
ATOM	171	HB	VALM	10	1.879	3.385	3.902	1.00	0.00
ATOM	172	QG1	VALM	10	1.273	5.359	5.363	1.00	0.00
ATOM	173	QG2	VALM	10	-0.404	2.782	4.799	1.00	0.00
ATOM	174	CG1	VALM	10	1.208	5.064	5.067	1.00	0.00
ATOM	175	1HG1	VALM	10	2.079	5.699	4.812	1.00	0.00
ATOM	176	2HG1	VALM	10	0.342	5.739	5.207	1.00	0.00
ATOM	177	3HG1	VALM	10	1.400	4.639	6.071	1.00	0.00
ATOM	178	CG2	VALM	10	-0.117	3.032	4.634	1.00	0.00

ATOM	179	1HG2	VALM	10	0.252	2.551	5.559	1.00	0.00
ATOM	180	2HG2	VALM	10	-1.045	3.573	4.895	1.00	0.00
ATOM	181	3HG2	VALM	10	-0.419	2.223	3.941	1.00	0.00
ATOM	182	QOG	VALM	10	0.435	4.071	5.081	1.00	0.00
ATOM	183	C	VALM	10	1.761	4.476	1.645	1.00	0.00
ATOM	184	O	VALM	10	2.846	3.998	1.998	1.00	0.00
ATOM	185	N	ILEM	11	1.588	5.015	0.453	1.00	0.00
ATOM	186	QB	ILEM	11	-0.096	5.678	0.102	1.00	0.00
ATOM	187	CN	ILEM	11	0.236	5.547	0.171	1.00	0.00
ATOM	188	1HNB	ILEM	11	-0.405	5.391	1.039	1.00	0.00
ATOM	189	2HNB	ILEM	11	0.302	6.613	-0.045	1.00	0.00
ATOM	190	3HNB	ILEM	11	-0.186	5.029	-0.689	1.00	0.00
ATOM	191	CA	ILEM	11	2.667	5.083	-0.528	1.00	0.00
ATOM	192	HA	ILEM	11	2.282	5.629	-1.410	1.00	0.00
ATOM	193	CB	ILEM	11	3.915	5.871	0.040	1.00	0.00
ATOM	194	HB	ILEM	11	3.710	6.058	1.115	1.00	0.00
ATOM	195	QG2	ILEM	11	5.601	4.830	-0.086	1.00	0.00
ATOM	196	CG2	ILEM	11	5.241	5.052	-0.052	1.00	0.00
ATOM	197	1HG2	ILEM	11	5.302	4.454	-0.978	1.00	0.00
ATOM	198	2HG2	ILEM	11	6.144	5.688	-0.076	1.00	0.00
ATOM	199	3HG2	ILEM	11	5.356	4.350	0.795	1.00	0.00
ATOM	200	CG1	ILEM	11	4.161	7.267	-0.619	1.00	0.00
ATOM	201	2HG1	ILEM	11	3.893	7.220	-1.692	1.00	0.00
ATOM	202	QG1	ILEM	11	3.893	7.220	-1.692	1.00	0.00
ATOM	203	QD1	ILEM	11	3.128	8.749	0.124	1.00	0.00
ATOM	204	CD1	ILEM	11	3.350	8.440	-0.032	1.00	0.00
ATOM	205	1HD1	ILEM	11	2.264	8.275	-0.154	1.00	0.00
ATOM	206	2HD1	ILEM	11	3.539	8.569	1.051	1.00	0.00
ATOM	207	3HD1	ILEM	11	3.580	9.402	-0.525	1.00	0.00
ATOM	208	C	ILEM	11	3.046	3.703	-1.012	1.00	0.00
ATOM	209	O	ILEM	11	2.772	2.682	-0.364	1.00	0.00
ATOM	210	N	PIPO	12	3.686	3.649	-2.165	1.00	0.00
ATOM	211	CE	PIPO	12	4.116	2.403	-2.759	1.00	0.00
ATOM	212	CA	PIPO	12	4.028	4.842	-2.926	1.00	0.00
ATOM	213	HA	PIPO	12	4.505	5.596	-2.299	1.00	0.00
ATOM	214	CB	PIPO	12	5.000	4.522	-4.076	1.00	0.00
ATOM	215	2HB	PIPO	12	5.232	5.436	-4.621	1.00	0.00
ATOM	216	3HB	PIPO	12	5.919	4.100	-3.668	1.00	0.00
ATOM	217	QB	PIPO	12	5.576	4.768	-4.145	1.00	0.00
ATOM	218	CG	PIPO	12	4.349	3.505	-5.032	1.00	0.00
ATOM	219	2HG	PIPO	12	5.038	3.279	-5.846	1.00	0.00
ATOM	220	3HG	PIPO	12	3.431	3.927	-5.440	1.00	0.00
ATOM	221	QG	PIPO	12	4.234	3.603	-5.643	1.00	0.00
ATOM	222	CD	PIPO	12	3.983	2.490	-4.290	1.00	0.00
ATOM	223	2HD	PIPO	12	4.306	1.550	-4.737	1.00	0.00
ATOM	224	3HD	PIPO	12	2.941	2.678	-4.555	1.00	0.00
ATOM	225	QD	PIPO	12	3.624	2.114	-4.646	1.00	0.00
ATOM	226	1HE	PIPO	12	5.156	2.213	-2.496	1.00	0.00
ATOM	227	2HE	PIPO	12	3.493	1.589	-2.386	1.00	0.00
ATOM	228	QE	PIPO	12	4.325	1.901	-2.441	1.00	0.00
ATOM	229	C	PIPO	12	2.781	5.491	-3.551	1.00	0.00
ATOM	230	O	PIPO	12	2.626	6.710	-3.401	1.00	0.00
ATOM	231	O1'	PHEO	13	1.921	4.755	-4.229	1.00	0.00
ATOM	232	CA	PHEO	13	0.527	5.153	-4.399	1.00	0.00
ATOM	233	HA	PHEO	13	0.469	6.079	-5.002	1.00	0.00
ATOM	234	CB	PHEO	13	-0.106	5.392	-2.996	1.00	0.00
ATOM	235	2HB	PHEO	13	0.676	5.751	-2.296	1.00	0.00
ATOM	236	QB	PHEO	13	0.676	5.751	-2.296	1.00	0.00
ATOM	237	QD	PHEO	13	-1.412	6.487	-2.908	1.00	0.00

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ATOM	238	QE	PHEO	13	-3.251	8.113	-2.726	1.00	0.00
ATOM	239	QR	PHEO	13	-2.700	7.626	-2.781	1.00	0.00
ATOM	240	CG	PHEO	13	-1.292	6.366	-2.937	1.00	0.00
ATOM	241	CD1	PHEO	13	-1.186	7.624	-3.539	1.00	0.00
ATOM	242	1HD	PHEO	13	-0.278	7.903	-4.059	1.00	0.00
ATOM	243	CE1	PHEO	13	-2.219	8.547	-3.426	1.00	0.00
ATOM	244	1HE	PHEO	13	-2.114	9.527	-3.869	1.00	0.00
ATOM	245	CZ	PHEO	13	-3.376	8.212	-2.726	1.00	0.00
ATOM	246	HZ	PHEO	13	-4.176	8.931	-2.635	1.00	0.00
ATOM	247	CE2	PHEO	13	-3.495	6.955	-2.133	1.00	0.00
ATOM	248	2HE	PHEO	13	-4.389	6.698	-1.584	1.00	0.00
ATOM	249	CD2	PHEO	13	-2.455	6.035	-2.237	1.00	0.00
ATOM	250	2HD	PHEO	13	-2.546	5.070	-1.757	1.00	0.00
ATOM	251	C	PHEO	13	-0.264	4.070	-5.092	1.00	0.00
ATOM	252	O	PHEO	13	-1.464	4.242	-5.448	1.00	0.00
TER									
ENDMDL									
MODEL									
	8								
ATOM	1	N	VALM	1	-0.664	3.408	-4.473	1.00	0.00
ATOM	2	QB	VALM	1	-2.384	4.071	-4.437	1.00	0.00
ATOM	3	CN	VALM	1	-2.045	3.941	-4.445	1.00	0.00
ATOM	4	1HNB	VALM	1	-2.382	4.021	-3.411	1.00	0.00
ATOM	5	2HNB	VALM	1	-2.065	4.925	-4.910	1.00	0.00
ATOM	6	3HNB	VALM	1	-2.705	3.267	-4.989	1.00	0.00
ATOM	7	CA	VALM	1	-0.385	1.979	-4.366	1.00	0.00
ATOM	8	HA	VALM	1	-1.326	1.448	-4.138	1.00	0.00
ATOM	9	CB	VALM	1	0.201	1.444	-5.732	1.00	0.00
ATOM	10	HB	VALM	1	1.020	2.134	-6.031	1.00	0.00
ATOM	11	QG1	VALM	1	0.992	-0.366	-5.697	1.00	0.00
ATOM	12	QG2	VALM	1	-1.096	1.416	-7.204	1.00	0.00
ATOM	13	CG1	VALM	1	0.815	0.017	-5.707	1.00	0.00
ATOM	14	1HG1	VALM	1	0.108	-0.755	-6.065	1.00	0.00
ATOM	15	2HG1	VALM	1	1.726	-0.059	-6.333	1.00	0.00
ATOM	16	3HG1	VALM	1	1.141	-0.284	-4.694	1.00	0.00
ATOM	17	CG2	VALM	1	-0.825	1.426	-6.891	1.00	0.00
ATOM	18	1HG2	VALM	1	-1.684	2.097	-6.701	1.00	0.00
ATOM	19	2HG2	VALM	1	-0.371	1.740	-7.848	1.00	0.00
ATOM	20	3HG2	VALM	1	-1.232	0.411	-7.063	1.00	0.00
ATOM	21	QQG	VALM	1	-0.052	0.525	-6.450	1.00	0.00
ATOM	22	C	VALM	1	0.567	1.699	-3.227	1.00	0.00
ATOM	23	O	VALM	1	1.552	2.418	-3.068	1.00	0.00
ATOM	24	N	PRO	2	0.253	0.637	-2.437	1.00	0.00
ATOM	25	CD	PRO	2	-0.905	-0.239	-2.596	1.00	0.00
ATOM	26	CA	PRO	2	1.094	0.269	-1.310	1.00	0.00
ATOM	27	HA	PRO	2	1.388	1.086	-0.815	1.00	0.00
ATOM	28	CB	PRO	2	0.223	-0.630	-0.447	1.00	0.00
ATOM	29	2HB	PRO	2	-0.168	-0.086	0.413	1.00	0.00
ATOM	30	QB	PRO	2	-0.168	-0.086	0.413	1.00	0.00
ATOM	31	CG	PRO	2	-0.905	-1.107	-1.347	1.00	0.00
ATOM	32	2HG	PRO	2	-1.863	-1.034	-0.832	1.00	0.00
ATOM	33	QG	PRO	2	-1.863	-1.034	-0.832	1.00	0.00
ATOM	34	2HD	PRO	2	-1.827	0.336	-2.678	1.00	0.00
ATOM	35	QD	PRO	2	-1.827	0.336	-2.678	1.00	0.00
ATOM	36	C	PRO	2	2.376	-0.418	-1.784	1.00	0.00
ATOM	37	O	PRO	2	2.435	-0.929	-2.901	1.00	0.00
ATOM	38	N	ILE	3	3.373	-0.408	-0.910	1.00	0.00
ATOM	39	H	ILE	3	3.316	0.010	-0.003	1.00	0.00
ATOM	40	CA	ILE	3	4.650	-1.023	-1.224	1.00	0.00
ATOM	41	HA	ILE	3	4.657	-1.232	-2.294	1.00	0.00

ATOM	42	CB	ILE	3	5.797	-0.049	-0.946	1.00	0.00
ATOM	43	HB	ILE	3	6.496	-0.530	-0.263	1.00	0.00
ATOM	44	QG2	ILE	3	6.751	0.347	-2.533	1.00	0.00
ATOM	45	CG2	ILE	3	6.568	0.271	-2.229	1.00	0.00
ATOM	46	1HG2	ILE	3	5.893	0.209	-3.082	1.00	0.00
ATOM	47	2HG2	ILE	3	6.980	1.278	-2.162	1.00	0.00
ATOM	48	3HG2	ILE	3	7.379	-0.446	-2.353	1.00	0.00
ATOM	49	CG1	ILE	3	5.286	1.216	-0.253	1.00	0.00
ATOM	50	2HG1	ILE	3	4.329	1.510	-0.686	1.00	0.00
ATOM	51	QG1	ILE	3	4.329	1.510	-0.686	1.00	0.00
ATOM	52	QD1	ILE	3	5.085	0.936	1.608	1.00	0.00
ATOM	53	CD1	ILE	3	5.124	0.990	1.251	1.00	0.00
ATOM	54	1HD1	ILE	3	5.573	0.036	1.526	1.00	0.00
ATOM	55	2HD1	ILE	3	5.618	1.795	1.795	1.00	0.00
ATOM	56	3HD1	ILE	3	4.063	0.978	1.504	1.00	0.00
ATOM	57	C	ILE	3	4.773	-2.349	-0.470	1.00	0.00
ATOM	58	O	ILE	3	5.265	-3.369	-0.974	1.00	0.00
ATOM	59	N	PIP	4	4.314	-2.331	0.768	1.00	0.00
ATOM	60	CE	PIP	4	3.739	-1.147	1.367	1.00	0.00
ATOM	61	CA	PIP	4	4.365	-3.496	1.637	1.00	0.00
ATOM	62	HA	PIP	4	5.355	-3.951	1.641	1.00	0.00
ATOM	63	CB	PIP	4	4.023	-3.133	3.094	1.00	0.00
ATOM	64	2HB	PIP	4	4.072	-4.028	3.713	1.00	0.00
ATOM	65	3HB	PIP	4	4.739	-2.398	3.462	1.00	0.00
ATOM	66	QB	PIP	4	4.405	-3.213	3.588	1.00	0.00
ATOM	67	CG	PIP	4	2.603	-2.542	3.157	1.00	0.00
ATOM	68	2HG	PIP	4	2.362	-2.285	4.188	1.00	0.00
ATOM	69	3HG	PIP	4	1.887	-3.277	2.789	1.00	0.00
ATOM	70	QG	PIP	4	2.124	-2.781	3.489	1.00	0.00
ATOM	71	CD	PIP	4	2.581	-1.553	2.297	1.00	0.00
ATOM	72	2HD	PIP	4	2.146	-0.660	2.749	1.00	0.00
ATOM	73	3HD	PIP	4	1.817	-2.075	1.722	1.00	0.00
ATOM	74	QD	PIP	4	1.982	-1.368	2.236	1.00	0.00
ATOM	75	1HE	PIP	4	4.501	-0.623	1.943	1.00	0.00
ATOM	76	2HE	PIP	4	3.361	-0.489	0.583	1.00	0.00
ATOM	77	QE	PIP	4	3.931	-0.556	1.263	1.00	0.00
ATOM	78	C	PIP	4	3.368	-4.579	1.192	1.00	0.00
ATOM	79	O	PIP	4	2.701	-4.307	0.195	1.00	0.00
ATOM	80	N	ALA	5	3.277	-5.715	1.867	1.00	0.00
ATOM	81	H	ALA	5	3.823	-5.930	2.677	1.00	0.00
ATOM	82	CA	ALA	5	2.349	-6.757	1.460	1.00	0.00
ATOM	83	HA	ALA	5	2.778	-7.264	0.596	1.00	0.00
ATOM	84	QB	ALA	5	2.148	-8.010	2.865	1.00	0.00
ATOM	85	CB	ALA	5	2.187	-7.769	2.596	1.00	0.00
ATOM	86	1HB	ALA	5	1.245	-7.587	3.113	1.00	0.00
ATOM	87	2HB	ALA	5	2.186	-8.778	2.184	1.00	0.00
ATOM	88	3HB	ALA	5	3.014	-7.663	3.298	1.00	0.00
ATOM	89	C	ALA	5	1.020	-6.118	1.054	1.00	0.00
ATOM	90	O	ALA	5	0.676	-5.036	1.529	1.00	0.00
ATOM	91	N	PRO	6	0.288	-6.834	0.158	1.00	0.00
ATOM	92	CD	PRO	6	0.664	-8.118	-0.425	1.00	0.00
ATOM	93	CA	PRO	6	-0.997	-6.347	-0.317	1.00	0.00
ATOM	94	HA	PRO	6	-0.949	-5.366	-0.503	1.00	0.00
ATOM	95	CB	PRO	6	-1.278	-7.147	-1.578	1.00	0.00
ATOM	96	2HB	PRO	6	-1.068	-6.557	-2.470	1.00	0.00
ATOM	97	QB	PRO	6	-1.068	-6.557	-2.470	1.00	0.00
ATOM	98	CG	PRO	6	-0.374	-8.367	-1.508	1.00	0.00
ATOM	99	2HG	PRO	6	0.112	-8.539	-2.469	1.00	0.00
ATOM	100	QG	PRO	6	0.112	-8.539	-2.469	1.00	0.00

ATOM	101	2HD	PRO	6	1.670	-8.085	-0.841	1.00	0.00
ATOM	102	QD	PRO	6	1.670	-8.085	-0.841	1.00	0.00
ATOM	103	C	PRO	6	-2.077	-6.518	0.753	1.00	0.00
ATOM	104	O	PRO	6	-2.457	-7.624	1.156	1.00	0.00
ATOM	105	N	THRM	7	-2.581	-5.392	1.222	1.00	0.00
ATOM	106	QB	THRM	7	-3.886	-5.566	2.513	1.00	0.00
ATOM	107	CN	THRM	7	-3.628	-5.531	2.258	1.00	0.00
ATOM	108	1HNB	THRM	7	-3.804	-6.589	2.458	1.00	0.00
ATOM	109	2HNB	THRM	7	-3.302	-5.039	3.174	1.00	0.00
ATOM	110	3HNB	THRM	7	-4.551	-5.071	1.907	1.00	0.00
ATOM	111	CA	THRM	7	-2.132	-4.087	0.746	1.00	0.00
ATOM	112	HA	THRM	7	-1.027	-4.084	0.724	1.00	0.00
ATOM	113	CB	THRM	7	-2.664	-3.816	-0.702	1.00	0.00
ATOM	114	HB	THRM	7	-1.794	-3.779	-1.392	1.00	0.00
ATOM	115	QG2	THRM	7	-3.957	-5.111	-1.405	1.00	0.00
ATOM	116	OG1	THRM	7	-3.341	-2.567	-0.758	1.00	0.00
ATOM	117	1HG	THRM	7	-4.162	-2.687	-0.272	1.00	0.00
ATOM	118	CG2	THRM	7	-3.682	-4.835	-1.259	1.00	0.00
ATOM	119	1HG2	THRM	7	-3.378	-5.878	-1.059	1.00	0.00
ATOM	120	2HG2	THRM	7	-4.684	-4.722	-0.803	1.00	0.00
ATOM	121	3HG2	THRM	7	-3.808	-4.732	-2.353	1.00	0.00
ATOM	122	C	THRM	7	-2.567	-2.989	1.688	1.00	0.00
ATOM	123	O	THRM	7	-3.395	-3.235	2.563	1.00	0.00
ATOM	124	N	VAL	8	-2.006	-1.804	1.497	1.00	0.00
ATOM	125	H	VAL	8	-1.334	-1.612	0.782	1.00	0.00
ATOM	126	CA	VAL	8	-2.345	-0.671	2.340	1.00	0.00
ATOM	127	HA	VAL	8	-3.365	-0.819	2.696	1.00	0.00
ATOM	128	CB	VAL	8	-1.419	-0.629	3.558	1.00	0.00
ATOM	129	HB	VAL	8	-1.209	0.416	3.783	1.00	0.00
ATOM	130	QG1	VAL	8	-2.256	-1.394	5.074	1.00	0.00
ATOM	131	QG2	VAL	8	0.228	-1.486	3.186	1.00	0.00
ATOM	132	CG1	VAL	8	-2.096	-1.248	4.782	1.00	0.00
ATOM	133	1HG1	VAL	8	-2.340	-0.463	5.498	1.00	0.00
ATOM	134	2HG1	VAL	8	-3.009	-1.756	4.475	1.00	0.00
ATOM	135	3HG1	VAL	8	-1.419	-1.965	5.248	1.00	0.00
ATOM	136	CG2	VAL	8	-0.088	-1.321	3.257	1.00	0.00
ATOM	137	1HG2	VAL	8	0.258	-1.029	2.266	1.00	0.00
ATOM	138	2HG2	VAL	8	0.651	-1.026	4.002	1.00	0.00
ATOM	139	3HG2	VAL	8	-0.226	-2.402	3.291	1.00	0.00
ATOM	140	QQG	VAL	8	-1.014	-1.440	4.130	1.00	0.00
ATOM	141	C	VAL	8	-2.297	0.612	1.508	1.00	0.00
ATOM	142	O	VAL	8	-1.870	0.647	0.347	1.00	0.00
ATOM	143	N	THRM	9	-2.746	1.692	2.120	1.00	0.00
ATOM	144	QB	THRM	9	-3.343	1.452	3.848	1.00	0.00
ATOM	145	CN	THRM	9	-3.225	1.499	3.506	1.00	0.00
ATOM	146	1HNB	THRM	9	-3.116	0.452	3.787	1.00	0.00
ATOM	147	2HNB	THRM	9	-2.638	2.119	4.183	1.00	0.00
ATOM	148	3HNB	THRM	9	-4.275	1.784	3.572	1.00	0.00
ATOM	149	CA	THRM	9	-2.771	2.998	1.467	1.00	0.00
ATOM	150	HA	THRM	9	-2.443	2.870	0.420	1.00	0.00
ATOM	151	CB	THRM	9	-4.221	3.589	1.473	1.00	0.00
ATOM	152	HB	THRM	9	-4.340	4.213	2.385	1.00	0.00
ATOM	153	QG2	THRM	9	-4.725	4.672	-0.081	1.00	0.00
ATOM	154	OG1	THRM	9	-5.183	2.544	1.510	1.00	0.00
ATOM	155	1HG	THRM	9	-5.847	2.816	2.151	1.00	0.00
ATOM	156	CG2	THRM	9	-4.618	4.440	0.247	1.00	0.00
ATOM	157	1HG2	THRM	9	-5.557	4.998	0.415	1.00	0.00
ATOM	158	2HG2	THRM	9	-3.856	5.202	-0.004	1.00	0.00
ATOM	159	3HG2	THRM	9	-4.763	3.815	-0.655	1.00	0.00



ATOM	160	C	THRM	9	-1.803	3.950	2.128	1.00	0.00
ATOM	161	O	THRM	9	-2.182	4.897	2.788	1.00	0.00
ATOM	162	N	VALM	10	-0.521	3.692	1.946	1.00	0.00
ATOM	163	QB	VALM	10	-0.132	2.213	0.916	1.00	0.00
ATOM	164	CN	VALM	10	-0.209	2.505	1.120	1.00	0.00
ATOM	165	1HNB	VALM	10	0.848	2.515	0.853	1.00	0.00
ATOM	166	2HNB	VALM	10	-0.433	1.600	1.683	1.00	0.00
ATOM	167	3HNB	VALM	10	-0.812	2.525	0.211	1.00	0.00
ATOM	168	CA	VALM	10	0.526	4.528	2.525	1.00	0.00
ATOM	169	HA	VALM	10	0.175	5.576	2.546	1.00	0.00
ATOM	170	CB	VALM	10	0.837	4.053	4.001	1.00	0.00
ATOM	171	HB	VALM	10	1.719	3.379	3.948	1.00	0.00
ATOM	172	QG1	VALM	10	1.297	5.474	5.294	1.00	0.00
ATOM	173	QG2	VALM	10	-0.623	3.035	4.825	1.00	0.00
ATOM	174	CG1	VALM	10	1.194	5.167	5.023	1.00	0.00
ATOM	175	1HG1	VALM	10	0.656	5.049	5.983	1.00	0.00
ATOM	176	2HG1	VALM	10	2.276	5.193	5.255	1.00	0.00
ATOM	177	3HG1	VALM	10	0.960	6.180	4.643	1.00	0.00
ATOM	178	CG2	VALM	10	-0.312	3.250	4.656	1.00	0.00
ATOM	179	1HG2	VALM	10	-0.137	3.070	5.734	1.00	0.00
ATOM	180	2HG2	VALM	10	-1.282	3.772	4.566	1.00	0.00
ATOM	181	3HG2	VALM	10	-0.449	2.262	4.176	1.00	0.00
ATOM	182	QQG	VALM	10	0.337	4.254	5.059	1.00	0.00
ATOM	183	C	VALM	10	1.775	4.497	1.676	1.00	0.00
ATOM	184	O	VALM	10	2.839	4.022	2.093	1.00	0.00
ATOM	185	N	ILEM	11	1.663	5.006	0.464	1.00	0.00
ATOM	186	QB	ILEM	11	0.002	5.668	0.016	1.00	0.00
ATOM	187	CN	ILEM	11	0.329	5.537	0.105	1.00	0.00
ATOM	188	1HNB	ILEM	11	-0.353	5.406	0.944	1.00	0.00
ATOM	189	2HNB	ILEM	11	0.413	6.597	-0.134	1.00	0.00
ATOM	190	3HNB	ILEM	11	-0.054	5.000	-0.762	1.00	0.00
ATOM	191	CA	ILEM	11	2.787	5.043	-0.466	1.00	0.00
ATOM	192	HA	ILEM	11	2.480	5.649	-1.338	1.00	0.00
ATOM	193	CB	ILEM	11	4.057	5.724	0.190	1.00	0.00
ATOM	194	HB	ILEM	11	3.857	5.781	1.282	1.00	0.00
ATOM	195	QG2	ILEM	11	5.715	4.666	-0.070	1.00	0.00
ATOM	196	CG2	ILEM	11	5.360	4.890	-0.007	1.00	0.00
ATOM	197	1HG2	ILEM	11	5.488	4.549	-1.050	1.00	0.00
ATOM	198	2HG2	ILEM	11	6.280	5.462	0.208	1.00	0.00
ATOM	199	3HG2	ILEM	11	5.378	3.987	0.633	1.00	0.00
ATOM	200	CG1	ILEM	11	4.337	7.183	-0.291	1.00	0.00
ATOM	201	2HG1	ILEM	11	4.685	7.795	0.562	1.00	0.00
ATOM	202	QG1	ILEM	11	4.685	7.795	0.562	1.00	0.00
ATOM	203	QD1	ILEM	11	5.695	7.379	-1.682	1.00	0.00
ATOM	204	CD1	ILEM	11	5.413	7.335	-1.386	1.00	0.00
ATOM	205	1HD1	ILEM	11	4.954	7.445	-2.386	1.00	0.00
ATOM	206	2HD1	ILEM	11	6.044	8.229	-1.218	1.00	0.00
ATOM	207	3HD1	ILEM	11	6.086	6.462	-1.442	1.00	0.00
ATOM	208	C	ILEM	11	3.100	3.663	-0.993	1.00	0.00
ATOM	209	O	ILEM	11	2.800	2.637	-0.366	1.00	0.00
ATOM	210	N	PIPO	12	3.712	3.615	-2.161	1.00	0.00
ATOM	211	CE	PIPO	12	4.077	2.367	-2.797	1.00	0.00
ATOM	212	CA	PIPO	12	4.084	4.812	-2.899	1.00	0.00
ATOM	213	HA	PIPO	12	4.605	5.529	-2.265	1.00	0.00
ATOM	214	CB	PIPO	12	5.017	4.484	-4.079	1.00	0.00
ATOM	215	2HB	PIPO	12	5.273	5.404	-4.607	1.00	0.00
ATOM	216	3HB	PIPO	12	5.926	4.015	-3.705	1.00	0.00
ATOM	217	QB	PIPO	12	5.600	4.709	-4.156	1.00	0.00
ATOM	218	CG	PIPO	12	4.304	3.521	-5.047	1.00	0.00

ATOM	219	2HG	PIPO	12	4.965	3.288	-5.882	1.00	0.00
ATOM	220	3HG	PIPO	12	3.395	3.988	-5.423	1.00	0.00
ATOM	221	QG	PIPO	12	4.180	3.638	-5.652	1.00	0.00
ATOM	222	CD	PIPO	12	3.913	2.500	-4.322	1.00	0.00
ATOM	223	2HD	PIPO	12	4.189	1.561	-4.802	1.00	0.00
ATOM	224	3HD	PIPO	12	2.875	2.736	-4.558	1.00	0.00
ATOM	225	OD	PIPO	12	3.532	2.149	-4.680	1.00	0.00
ATOM	226	1HE	PIPO	12	5.115	2.131	-2.563	1.00	0.00
ATOM	227	2HE	PIPO	12	3.432	1.569	-2.430	1.00	0.00
ATOM	228	QE	PIPO	12	4.273	1.850	-2.496	1.00	0.00
ATOM	229	C	PIPO	12	2.852	5.527	-3.478	1.00	0.00
ATOM	230	O	PIPO	12	2.659	6.704	-3.153	1.00	0.00
ATOM	231	O1'	PHEO	13	2.043	4.888	-4.303	1.00	0.00
ATOM	232	CA	PHEO	13	0.633	5.244	-4.435	1.00	0.00
ATOM	233	HA	PHEO	13	0.526	6.139	-5.076	1.00	0.00
ATOM	234	CB	PHEO	13	0.050	5.533	-3.018	1.00	0.00
ATOM	235	2HB	PHEO	13	0.882	5.689	-2.303	1.00	0.00
ATOM	236	QB	PHEO	13	0.882	5.689	-2.303	1.00	0.00
ATOM	237	QD	PHEO	13	-1.008	6.864	-2.871	1.00	0.00
ATOM	238	QE	PHEO	13	-2.479	8.819	-2.604	1.00	0.00
ATOM	239	QR	PHEO	13	-2.038	8.234	-2.684	1.00	0.00
ATOM	240	CG	PHEO	13	-0.915	6.722	-2.905	1.00	0.00
ATOM	241	CD1	PHEO	13	-0.570	7.951	-3.480	1.00	0.00
ATOM	242	1HD	PHEO	13	0.365	8.057	-4.015	1.00	0.00
ATOM	243	CE1	PHEO	13	-1.395	9.058	-3.318	1.00	0.00
ATOM	244	1HE	PHEO	13	-1.104	10.010	-3.739	1.00	0.00
ATOM	245	CZ	PHEO	13	-2.581	8.941	-2.597	1.00	0.00
ATOM	246	HZ	PHEO	13	-3.218	9.803	-2.469	1.00	0.00
ATOM	247	CE2	PHEO	13	-2.939	7.717	-2.034	1.00	0.00
ATOM	248	2HE	PHEO	13	-3.855	7.628	-1.469	1.00	0.00
ATOM	249	CD2	PHEO	13	-2.107	6.611	-2.185	1.00	0.00
ATOM	250	2HD	PHEO	13	-2.380	5.670	-1.727	1.00	0.00
ATOM	251	C	PHEO	13	-0.157	4.110	-5.044	1.00	0.00
ATOM	252	O	PHEO	13	-0.226	3.937	-6.293	1.00	0.00
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<u>ENDMDL</u>									
<u>MODEL</u>									
	9								
ATOM	1	N	VALM	1	-0.644	3.425	-4.474	1.00	0.00
ATOM	2	QB	VALM	1	-2.356	4.109	-4.444	1.00	0.00
ATOM	3	CN	VALM	1	-2.018	3.974	-4.450	1.00	0.00
ATOM	4	1HNB	VALM	1	-2.035	4.935	-4.962	1.00	0.00
ATOM	5	2HNB	VALM	1	-2.695	3.283	-4.952	1.00	0.00
ATOM	6	3HNB	VALM	1	-2.339	4.108	-3.417	1.00	0.00
ATOM	7	CA	VALM	1	-0.381	1.993	-4.358	1.00	0.00
ATOM	8	HA	VALM	1	-1.328	1.475	-4.122	1.00	0.00
ATOM	9	CB	VALM	1	0.191	1.441	-5.723	1.00	0.00
ATOM	10	HB	VALM	1	0.991	2.139	-6.049	1.00	0.00
ATOM	11	QG1	VALM	1	0.995	-0.362	-5.664	1.00	0.00
ATOM	12	QG2	VALM	1	-1.139	1.367	-7.164	1.00	0.00
ATOM	13	CG1	VALM	1	0.829	0.026	-5.681	1.00	0.00
ATOM	14	1HG1	VALM	1	1.784	-0.025	-6.239	1.00	0.00
ATOM	15	2HG1	VALM	1	1.036	-0.311	-4.648	1.00	0.00
ATOM	16	3HG1	VALM	1	0.165	-0.751	-6.105	1.00	0.00
ATOM	17	CG2	VALM	1	-0.854	1.384	-6.864	1.00	0.00
ATOM	18	1HG2	VALM	1	-0.412	1.614	-7.850	1.00	0.00
ATOM	19	2HG2	VALM	1	-1.324	0.386	-6.941	1.00	0.00
ATOM	20	3HG2	VALM	1	-1.682	2.100	-6.700	1.00	0.00
ATOM	21	QQG	VALM	1	-0.072	0.502	-6.414	1.00	0.00
ATOM	22	C	VALM	1	0.573	1.708	-3.222	1.00	0.00

ATOM	23	O	VALM	1	1.558	2.428	-3.064	1.00	0.00
ATOM	24	N	PRO	2	0.260	0.645	-2.434	1.00	0.00
ATOM	25	CD	PRO	2	-0.899	-0.228	-2.592	1.00	0.00
ATOM	26	CA	PRO	2	1.102	0.274	-1.310	1.00	0.00
ATOM	27	HA	PRO	2	1.399	1.090	-0.813	1.00	0.00
ATOM	28	CB	PRO	2	0.232	-0.625	-0.446	1.00	0.00
ATOM	29	2HB	PRO	2	-0.155	-0.083	0.416	1.00	0.00
ATOM	30	QB	PRO	2	-0.155	-0.083	0.416	1.00	0.00
ATOM	31	CG	PRO	2	-0.898	-1.099	-1.346	1.00	0.00
ATOM	32	2HG	PRO	2	-1.854	-1.025	-0.827	1.00	0.00
ATOM	33	QG	PRO	2	-1.854	-1.025	-0.827	1.00	0.00
ATOM	34	2HD	PRO	2	-1.821	0.348	-2.671	1.00	0.00
ATOM	35	QD	PRO	2	-1.821	0.348	-2.671	1.00	0.00
ATOM	36	C	PRO	2	2.383	-0.413	-1.787	1.00	0.00
ATOM	37	O	PRO	2	2.434	-0.934	-2.901	1.00	0.00
ATOM	38	N	ILE	3	3.386	-0.391	-0.922	1.00	0.00
ATOM	39	H	ILE	3	3.337	0.035	-0.019	1.00	0.00
ATOM	40	CA	ILE	3	4.664	-1.005	-1.243	1.00	0.00
ATOM	41	HA	ILE	3	4.667	-1.214	-2.312	1.00	0.00
ATOM	42	CB	ILE	3	5.811	-0.030	-0.968	1.00	0.00
ATOM	43	HB	ILE	3	6.513	-0.511	-0.287	1.00	0.00
ATOM	44	QG2	ILE	3	6.760	0.366	-2.559	1.00	0.00
ATOM	45	CG2	ILE	3	6.577	0.290	-2.253	1.00	0.00
ATOM	46	1HG2	ILE	3	7.030	1.278	-2.170	1.00	0.00
ATOM	47	2HG2	ILE	3	7.358	-0.456	-2.407	1.00	0.00
ATOM	48	3HG2	ILE	3	5.890	0.275	-3.100	1.00	0.00
ATOM	49	CG1	ILE	3	5.302	1.235	-0.274	1.00	0.00
ATOM	50	2HG1	ILE	3	4.342	1.527	-0.703	1.00	0.00
ATOM	51	QG1	ILE	3	4.342	1.527	-0.703	1.00	0.00
ATOM	52	QD1	ILE	3	5.110	0.957	1.588	1.00	0.00
ATOM	53	CD1	ILE	3	5.147	1.010	1.230	1.00	0.00
ATOM	54	1HD1	ILE	3	5.598	0.056	1.504	1.00	0.00
ATOM	55	2HD1	ILE	3	5.644	1.815	1.771	1.00	0.00
ATOM	56	3HD1	ILE	3	4.088	0.998	1.490	1.00	0.00
ATOM	57	C	ILE	3	4.791	-2.331	-0.490	1.00	0.00
ATOM	58	O	ILE	3	5.280	-3.352	-0.996	1.00	0.00
ATOM	59	N	PIP	4	4.338	-2.314	0.751	1.00	0.00
ATOM	60	CE	PIP	4	3.765	-1.130	1.353	1.00	0.00
ATOM	61	CA	PIP	4	4.394	-3.480	1.619	1.00	0.00
ATOM	62	HA	PIP	4	5.384	-3.935	1.619	1.00	0.00
ATOM	63	CB	PIP	4	4.060	-3.116	3.078	1.00	0.00
ATOM	64	2HB	PIP	4	4.111	-4.012	3.697	1.00	0.00
ATOM	65	3HB	PIP	4	4.777	-2.381	3.443	1.00	0.00
ATOM	66	QB	PIP	4	4.444	-3.197	3.570	1.00	0.00
ATOM	67	CG	PIP	4	2.639	-2.526	3.148	1.00	0.00
ATOM	68	2HG	PIP	4	2.403	-2.269	4.181	1.00	0.00
ATOM	69	3HG	PIP	4	1.921	-3.261	2.784	1.00	0.00
ATOM	70	QG	PIP	4	2.162	-2.765	3.483	1.00	0.00
ATOM	71	CD	PIP	4	2.613	-1.536	2.289	1.00	0.00
ATOM	72	2HD	PIP	4	2.180	-0.644	2.744	1.00	0.00
ATOM	73	3HD	PIP	4	1.846	-2.059	1.718	1.00	0.00
ATOM	74	QD	PIP	4	2.013	-1.352	2.231	1.00	0.00
ATOM	75	1HE	PIP	4	4.530	-0.606	1.926	1.00	0.00
ATOM	76	2HE	PIP	4	3.383	-0.472	0.571	1.00	0.00
ATOM	77	QE	PIP	4	3.956	-0.539	1.248	1.00	0.00
ATOM	78	C	PIP	4	3.394	-4.562	1.179	1.00	0.00
ATOM	79	O	PIP	4	2.721	-4.289	0.187	1.00	0.00
ATOM	80	N	ALA	5	3.308	-5.700	1.854	1.00	0.00
ATOM	81	H	ALA	5	3.859	-5.914	2.660	1.00	0.00

ATOM	82	CA	ALA	5	2.378	-6.740	1.451	1.00	0.00
ATOM	83	HA	ALA	5	2.792	-7.232	0.570	1.00	0.00
ATOM	84	QB	ALA	5	2.216	-8.015	2.841	1.00	0.00
ATOM	85	CB	ALA	5	2.247	-7.770	2.574	1.00	0.00
ATOM	86	1HB	ALA	5	3.001	-8.547	2.445	1.00	0.00
ATOM	87	2HB	ALA	5	2.392	-7.280	3.536	1.00	0.00
ATOM	88	3HB	ALA	5	1.254	-8.219	2.542	1.00	0.00
ATOM	89	C	ALA	5	1.037	-6.105	1.082	1.00	0.00
ATOM	90	O	ALA	5	0.696	-5.033	1.580	1.00	0.00
ATOM	91	N	PRO	6	0.291	-6.811	0.191	1.00	0.00
ATOM	92	CD	PRO	6	0.662	-8.085	-0.419	1.00	0.00
ATOM	93	CA	PRO	6	-1.006	-6.328	-0.250	1.00	0.00
ATOM	94	HA	PRO	6	-0.970	-5.343	-0.423	1.00	0.00
ATOM	95	CB	PRO	6	-1.309	-7.110	-1.517	1.00	0.00
ATOM	96	2HB	PRO	6	-1.122	-6.506	-2.403	1.00	0.00
ATOM	97	QB	PRO	6	-1.122	-6.506	-2.403	1.00	0.00
ATOM	98	CG	PRO	6	-0.396	-8.326	-1.484	1.00	0.00
ATOM	99	2HG	PRO	6	0.070	-8.479	-2.457	1.00	0.00
ATOM	100	QG	PRO	6	0.070	-8.479	-2.457	1.00	0.00
ATOM	101	2HD	PRO	6	1.659	-8.039	-0.855	1.00	0.00
ATOM	102	QD	PRO	6	1.659	-8.039	-0.855	1.00	0.00
ATOM	103	C	PRO	6	-2.063	-6.521	0.841	1.00	0.00
ATOM	104	O	PRO	6	-2.354	-7.630	1.307	1.00	0.00
ATOM	105	N	THRM	7	-2.649	-5.412	1.253	1.00	0.00
ATOM	106	QB	THRM	7	-3.927	-5.615	2.566	1.00	0.00
ATOM	107	CN	THRM	7	-3.675	-5.575	2.307	1.00	0.00
ATOM	108	1HNB	THRM	7	-3.767	-6.630	2.565	1.00	0.00
ATOM	109	2HNB	THRM	7	-3.381	-5.009	3.191	1.00	0.00
ATOM	110	3HNB	THRM	7	-4.633	-5.205	1.942	1.00	0.00
ATOM	111	CA	THRM	7	-2.305	-4.105	0.702	1.00	0.00
ATOM	112	HA	THRM	7	-1.210	-4.061	0.566	1.00	0.00
ATOM	113	CB	THRM	7	-2.993	-3.897	-0.689	1.00	0.00
ATOM	114	HB	THRM	7	-3.489	-2.902	-0.688	1.00	0.00
ATOM	115	QG2	THRM	7	-1.824	-3.997	-2.260	1.00	0.00
ATOM	116	OG1	THRM	7	-3.980	-4.895	-0.912	1.00	0.00
ATOM	117	1HG	THRM	7	-4.809	-4.529	-0.590	1.00	0.00
ATOM	118	CG2	THRM	7	-2.073	-3.979	-1.927	1.00	0.00
ATOM	119	1HG2	THRM	7	-2.198	-3.109	-2.597	1.00	0.00
ATOM	120	2HG2	THRM	7	-1.001	-3.997	-1.656	1.00	0.00
ATOM	121	3HG2	THRM	7	-2.273	-4.887	-2.527	1.00	0.00
ATOM	122	C	THRM	7	-2.686	-2.999	1.656	1.00	0.00
ATOM	123	O	THRM	7	-3.533	-3.211	2.524	1.00	0.00
ATOM	124	N	VAL	8	-2.061	-1.844	1.485	1.00	0.00
ATOM	125	H	VAL	8	-1.374	-1.679	0.779	1.00	0.00
ATOM	126	CA	VAL	8	-2.344	-0.705	2.343	1.00	0.00
ATOM	127	HA	VAL	8	-3.350	-0.837	2.743	1.00	0.00
ATOM	128	CB	VAL	8	-1.366	-0.681	3.520	1.00	0.00
ATOM	129	HB	VAL	8	-1.145	0.361	3.751	1.00	0.00
ATOM	130	QG1	VAL	8	-2.138	-1.466	5.061	1.00	0.00
ATOM	131	QG2	VAL	8	0.262	-1.534	3.067	1.00	0.00
ATOM	132	CG1	VAL	8	-1.990	-1.316	4.765	1.00	0.00
ATOM	133	1HG1	VAL	8	-2.326	-0.531	5.443	1.00	0.00
ATOM	134	2HG1	VAL	8	-2.841	-1.931	4.472	1.00	0.00
ATOM	135	3HG1	VAL	8	-1.248	-1.937	5.267	1.00	0.00
ATOM	136	CG2	VAL	8	-0.050	-1.371	3.154	1.00	0.00
ATOM	137	1HG2	VAL	8	0.309	-0.984	2.201	1.00	0.00
ATOM	138	2HG2	VAL	8	0.690	-1.174	3.929	1.00	0.00
ATOM	139	3HG2	VAL	8	-0.214	-2.445	3.072	1.00	0.00
ATOM	140	QQG	VAL	8	-0.938	-1.500	4.064	1.00	0.00

ATOM	141	C	VAL	8	-2.309	0.577	1.510	1.00	0.00
ATOM	142	O	VAL	8	-1.916	0.609	0.338	1.00	0.00
ATOM	143	N	THRM	9	-2.731	1.660	2.135	1.00	0.00
ATOM	144	QB	THRM	9	-3.279	1.425	3.880	1.00	0.00
ATOM	145	CN	THRM	9	-3.171	1.471	3.536	1.00	0.00
ATOM	146	1HNB	THRM	9	-3.063	0.423	3.813	1.00	0.00
ATOM	147	2HNB	THRM	9	-2.559	2.087	4.196	1.00	0.00
ATOM	148	3HNB	THRM	9	-4.217	1.765	3.632	1.00	0.00
ATOM	149	CA	THRM	9	-2.763	2.967	1.484	1.00	0.00
ATOM	150	HA	THRM	9	-2.447	2.840	0.433	1.00	0.00
ATOM	151	CB	THRM	9	-4.213	3.557	1.507	1.00	0.00
ATOM	152	HB	THRM	9	-4.377	4.043	2.492	1.00	0.00
ATOM	153	QG2	THRM	9	-4.648	4.852	0.100	1.00	0.00
ATOM	154	OG1	THRM	9	-5.175	2.522	1.344	1.00	0.00
ATOM	155	1HG	THRM	9	-4.782	1.731	1.724	1.00	0.00
ATOM	156	CG2	THRM	9	-4.553	4.578	0.400	1.00	0.00
ATOM	157	1HG2	THRM	9	-4.876	4.086	-0.536	1.00	0.00
ATOM	158	2HG2	THRM	9	-5.383	5.252	0.686	1.00	0.00
ATOM	159	3HG2	THRM	9	-3.686	5.219	0.151	1.00	0.00
ATOM	160	C	THRM	9	-1.789	3.919	2.136	1.00	0.00
ATOM	161	O	THRM	9	-2.160	4.877	2.784	1.00	0.00
ATOM	162	N	VALM	10	-0.509	3.650	1.957	1.00	0.00
ATOM	163	QB	VALM	10	-0.131	2.155	0.945	1.00	0.00
ATOM	164	CN	VALM	10	-0.206	2.451	1.145	1.00	0.00
ATOM	165	1HNB	VALM	10	-0.804	2.467	0.233	1.00	0.00
ATOM	166	2HNB	VALM	10	0.853	2.445	0.884	1.00	0.00
ATOM	167	3HNB	VALM	10	-0.444	1.554	1.717	1.00	0.00
ATOM	168	CA	VALM	10	0.544	4.483	2.528	1.00	0.00
ATOM	169	HA	VALM	10	0.189	5.530	2.565	1.00	0.00
ATOM	170	CB	VALM	10	0.883	3.993	3.992	1.00	0.00
ATOM	171	HB	VALM	10	1.784	3.347	3.921	1.00	0.00
ATOM	172	QG1	VALM	10	1.306	5.394	5.320	1.00	0.00
ATOM	173	QG2	VALM	10	-0.530	2.914	4.820	1.00	0.00
ATOM	174	CG1	VALM	10	1.215	5.101	5.030	1.00	0.00
ATOM	175	1HG1	VALM	10	1.349	6.094	4.561	1.00	0.00
ATOM	176	2HG1	VALM	10	0.428	5.206	5.800	1.00	0.00
ATOM	177	3HG1	VALM	10	2.140	4.883	5.598	1.00	0.00
ATOM	178	CG2	VALM	10	-0.236	3.147	4.644	1.00	0.00
ATOM	179	1HG2	VALM	10	-1.229	3.625	4.558	1.00	0.00
ATOM	180	2HG2	VALM	10	-0.315	2.145	4.183	1.00	0.00
ATOM	181	3HG2	VALM	10	-0.046	2.973	5.720	1.00	0.00
ATOM	182	QQG	VALM	10	0.388	4.154	5.070	1.00	0.00
ATOM	183	C	VALM	10	1.778	4.468	1.658	1.00	0.00
ATOM	184	O	VALM	10	2.849	3.985	2.046	1.00	0.00
ATOM	185	N	ILEM	11	1.647	5.000	0.457	1.00	0.00
ATOM	186	QB	ILEM	11	-0.022	5.672	0.050	1.00	0.00
ATOM	187	CN	ILEM	11	0.308	5.539	0.130	1.00	0.00
ATOM	188	1HNB	ILEM	11	-0.361	5.393	0.978	1.00	0.00
ATOM	189	2HNB	ILEM	11	0.388	6.604	-0.089	1.00	0.00
ATOM	190	3HNB	ILEM	11	-0.092	5.019	-0.740	1.00	0.00
ATOM	191	CA	ILEM	11	2.755	5.055	-0.491	1.00	0.00
ATOM	192	HA	ILEM	11	2.422	5.652	-1.360	1.00	0.00
ATOM	193	CB	ILEM	11	4.021	5.761	0.143	1.00	0.00
ATOM	194	HB	ILEM	11	3.804	5.893	1.223	1.00	0.00
ATOM	195	QG2	ILEM	11	5.664	4.659	-0.012	1.00	0.00
ATOM	196	CG2	ILEM	11	5.317	4.900	0.024	1.00	0.00
ATOM	197	1HG2	ILEM	11	5.110	3.818	0.086	1.00	0.00
ATOM	198	2HG2	ILEM	11	5.835	5.024	-0.943	1.00	0.00
ATOM	199	3HG2	ILEM	11	6.048	5.136	0.821	1.00	0.00

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ATOM	200	CG1	ILEM	11	4.329	7.183	-0.430	1.00	0.00
ATOM	201	2HG1	ILEM	11	4.117	7.198	-1.516	1.00	0.00
ATOM	202	QG1	ILEM	11	4.117	7.198	-1.516	1.00	0.00
ATOM	203	QD1	ILEM	11	3.297	8.657	0.330	1.00	0.00
ATOM	204	CD1	ILEM	11	3.513	8.343	0.176	1.00	0.00
ATOM	205	1HD1	ILEM	11	3.694	9.286	-0.372	1.00	0.00
ATOM	206	2HD1	ILEM	11	2.425	8.146	0.133	1.00	0.00
ATOM	207	3HD1	ILEM	11	3.774	8.538	1.231	1.00	0.00
ATOM	208	C	ILEM	11	3.085	3.679	-1.018	1.00	0.00
ATOM	209	O	ILEM	11	2.772	2.648	-0.403	1.00	0.00
ATOM	210	N	PIPO	12	3.725	3.638	-2.171	1.00	0.00
ATOM	211	CE	PIPO	12	4.111	2.396	-2.804	1.00	0.00
ATOM	212	CA	PIPO	12	4.112	4.841	-2.893	1.00	0.00
ATOM	213	HA	PIPO	12	4.615	5.556	-2.242	1.00	0.00
ATOM	214	CB	PIPO	12	5.076	4.523	-4.051	1.00	0.00
ATOM	215	2HB	PIPO	12	5.342	5.445	-4.567	1.00	0.00
ATOM	216	3HB	PIPO	12	5.977	4.054	-3.656	1.00	0.00
ATOM	217	QB	PIPO	12	5.659	4.750	-4.111	1.00	0.00
ATOM	218	CG	PIPO	12	4.391	3.562	-5.040	1.00	0.00
ATOM	219	2HG	PIPO	12	5.073	3.337	-5.860	1.00	0.00
ATOM	220	3HG	PIPO	12	3.490	4.030	-5.436	1.00	0.00
ATOM	221	QG	PIPO	12	4.281	3.684	-5.648	1.00	0.00
ATOM	222	CD	PIPO	12	3.984	2.537	-4.332	1.00	0.00
ATOM	223	2HD	PIPO	12	4.275	1.600	-4.810	1.00	0.00
ATOM	224	3HD	PIPO	12	2.952	2.771	-4.592	1.00	0.00
ATOM	225	QD	PIPO	12	3.614	2.186	-4.701	1.00	0.00
ATOM	226	1HE	PIPO	12	5.143	2.161	-2.545	1.00	0.00
ATOM	227	2HE	PIPO	12	3.458	1.594	-2.458	1.00	0.00
ATOM	228	QE	PIPO	12	4.300	1.877	-2.502	1.00	0.00
ATOM	229	C	PIPO	12	2.892	5.555	-3.499	1.00	0.00
ATOM	230	O	PIPO	12	2.712	6.743	-3.205	1.00	0.00
ATOM	231	O1'	PHEO	13	2.081	4.905	-4.312	1.00	0.00
ATOM	232	CA	PHEO	13	0.670	5.255	-4.439	1.00	0.00
ATOM	233	HA	PHEO	13	0.557	6.150	-5.078	1.00	0.00
ATOM	234	CB	PHEO	13	0.090	5.537	-3.020	1.00	0.00
ATOM	235	2HB	PHEO	13	0.922	5.687	-2.305	1.00	0.00
ATOM	236	QB	PHEO	13	0.922	5.687	-2.305	1.00	0.00
ATOM	237	QD	PHEO	13	-0.965	6.870	-2.863	1.00	0.00
ATOM	238	QE	PHEO	13	-2.435	8.824	-2.577	1.00	0.00
ATOM	239	QR	PHEO	13	-1.994	8.239	-2.663	1.00	0.00
ATOM	240	CG	PHEO	13	-0.873	6.729	-2.899	1.00	0.00
ATOM	241	CD1	PHEO	13	-0.496	7.976	-3.408	1.00	0.00
ATOM	242	1HD	PHEO	13	0.461	8.097	-3.899	1.00	0.00
ATOM	243	CE1	PHEO	13	-1.319	9.083	-3.236	1.00	0.00
ATOM	244	1HE	PHEO	13	-1.005	10.049	-3.605	1.00	0.00
ATOM	245	CZ	PHEO	13	-2.536	8.947	-2.570	1.00	0.00
ATOM	246	HZ	PHEO	13	-3.171	9.808	-2.433	1.00	0.00
ATOM	247	CE2	PHEO	13	-2.924	7.704	-2.072	1.00	0.00
ATOM	248	2HE	PHEO	13	-3.864	7.600	-1.549	1.00	0.00
ATOM	249	CD2	PHEO	13	-2.095	6.597	-2.234	1.00	0.00
ATOM	250	2HD	PHEO	13	-2.392	5.642	-1.827	1.00	0.00
ATOM	251	C	PHEO	13	-0.116	4.119	-5.049	1.00	0.00
ATOM	252	O	PHEO	13	-0.207	3.964	-6.299	1.00	0.00
TER									
ENDMDL									
MODEL	10								
ATOM	1	N	VALM	1	0.080	3.259	-5.020	1.00	0.00
ATOM	2	QB	VALM	1	1.142	3.247	-6.527	1.00	0.00
ATOM	3	CN	VALM	1	0.933	3.248	-6.230	1.00	0.00

ATOM	4	1HNB	VALM	1	1.973	3.398	-5.942	1.00	0.00
ATOM	5	2HNB	VALM	1	0.831	2.291	-6.739	1.00	0.00
ATOM	6	3HNB	VALM	1	0.622	4.051	-6.900	1.00	0.00
ATOM	7	CA	VALM	1	-0.307	2.028	-4.336	1.00	0.00
ATOM	8	HA	VALM	1	-1.311	2.167	-3.894	1.00	0.00
ATOM	9	CB	VALM	1	-0.350	0.831	-5.367	1.00	0.00
ATOM	10	HB	VALM	1	-0.224	1.269	-6.381	1.00	0.00
ATOM	11	QG1	VALM	1	1.048	-0.551	-5.180	1.00	0.00
ATOM	12	QG2	VALM	1	-2.049	-0.148	-5.371	1.00	0.00
ATOM	13	CG1	VALM	1	0.754	-0.251	-5.214	1.00	0.00
ATOM	14	1HG1	VALM	1	1.531	0.037	-4.482	1.00	0.00
ATOM	15	2HG1	VALM	1	0.343	-1.226	-4.890	1.00	0.00
ATOM	16	3HG1	VALM	1	1.271	-0.465	-6.169	1.00	0.00
ATOM	17	CG2	VALM	1	-1.688	0.054	-5.370	1.00	0.00
ATOM	18	1HG2	VALM	1	-1.537	-1.040	-5.299	1.00	0.00
ATOM	19	2HG2	VALM	1	-2.337	0.349	-4.526	1.00	0.00
ATOM	20	3HG2	VALM	1	-2.274	0.246	-6.289	1.00	0.00
ATOM	21	QQG	VALM	1	-0.501	-0.350	-5.276	1.00	0.00
ATOM	22	C	VALM	1	0.638	1.722	-3.198	1.00	0.00
ATOM	23	O	VALM	1	1.642	2.413	-3.042	1.00	0.00
ATOM	24	N	PRO	2	0.294	0.672	-2.405	1.00	0.00
ATOM	25	CD	PRO	2	-0.889	-0.170	-2.560	1.00	0.00
ATOM	26	CA	PRO	2	1.125	0.282	-1.278	1.00	0.00
ATOM	27	HA	PRO	2	1.444	1.092	-0.786	1.00	0.00
ATOM	28	CB	PRO	2	0.230	-0.589	-0.412	1.00	0.00
ATOM	29	2HB	PRO	2	-0.143	-0.032	0.447	1.00	0.00
ATOM	30	QB	PRO	2	-0.143	-0.032	0.447	1.00	0.00
ATOM	31	CG	PRO	2	-0.912	-1.035	-1.310	1.00	0.00
ATOM	32	2HG	PRO	2	-1.867	-0.932	-0.793	1.00	0.00
ATOM	33	QG	PRO	2	-1.867	-0.932	-0.793	1.00	0.00
ATOM	34	2HD	PRO	2	-1.794	0.431	-2.643	1.00	0.00
ATOM	35	QD	PRO	2	-1.794	0.431	-2.643	1.00	0.00
ATOM	36	C	PRO	2	2.387	-0.442	-1.752	1.00	0.00
ATOM	37	O	PRO	2	2.396	-1.043	-2.826	1.00	0.00
ATOM	38	N	ILE	3	3.422	-0.362	-0.928	1.00	0.00
ATOM	39	H	ILE	3	3.406	0.127	-0.057	1.00	0.00
ATOM	40	CA	ILE	3	4.686	-1.004	-1.249	1.00	0.00
ATOM	41	HA	ILE	3	4.677	-1.225	-2.317	1.00	0.00
ATOM	42	CB	ILE	3	5.851	-0.047	-0.995	1.00	0.00
ATOM	43	HB	ILE	3	6.559	-0.540	-0.329	1.00	0.00
ATOM	44	QG2	ILE	3	6.774	0.342	-2.602	1.00	0.00
ATOM	45	CG2	ILE	3	6.597	0.268	-2.294	1.00	0.00
ATOM	46	1HG2	ILE	3	7.257	-0.563	-2.544	1.00	0.00
ATOM	47	2HG2	ILE	3	5.877	0.415	-3.099	1.00	0.00
ATOM	48	3HG2	ILE	3	7.187	1.174	-2.163	1.00	0.00
ATOM	49	CG1	ILE	3	5.374	1.223	-0.286	1.00	0.00
ATOM	50	2HG1	ILE	3	4.425	1.548	-0.714	1.00	0.00
ATOM	51	QG1	ILE	3	4.425	1.548	-0.714	1.00	0.00
ATOM	52	QD1	ILE	3	5.168	0.927	1.572	1.00	0.00
ATOM	53	CD1	ILE	3	5.207	0.983	1.215	1.00	0.00
ATOM	54	1HD1	ILE	3	5.739	1.758	1.768	1.00	0.00
ATOM	55	2HD1	ILE	3	4.149	1.015	1.473	1.00	0.00
ATOM	56	3HD1	ILE	3	5.616	0.007	1.475	1.00	0.00
ATOM	57	C	ILE	3	4.793	-2.322	-0.481	1.00	0.00
ATOM	58	O	ILE	3	5.287	-3.350	-0.969	1.00	0.00
ATOM	59	N	PIP	4	4.319	-2.291	0.750	1.00	0.00
ATOM	60	CE	PIP	4	3.740	-1.099	1.331	1.00	0.00
ATOM	61	CA	PIP	4	4.354	-3.448	1.631	1.00	0.00
ATOM	62	HA	PIP	4	5.343	-3.907	1.652	1.00	0.00

ATOM	63	CB	PIP	4	3.997	-3.070	3.080	1.00	0.00
ATOM	64	2HB	PIP	4	4.034	-3.960	3.708	1.00	0.00
ATOM	65	3HB	PIP	4	4.710	-2.335	3.451	1.00	0.00
ATOM	66	QB	PIP	4	4.372	-3.147	3.579	1.00	0.00
ATOM	67	CG	PIP	4	2.577	-2.474	3.120	1.00	0.00
ATOM	68	2HG	PIP	4	2.324	-2.206	4.146	1.00	0.00
ATOM	69	3HG	PIP	4	1.863	-3.208	2.750	1.00	0.00
ATOM	70	QG	PIP	4	2.093	-2.707	3.448	1.00	0.00
ATOM	71	CD	PIP	4	2.569	-1.492	2.251	1.00	0.00
ATOM	72	2HD	PIP	4	2.133	-0.594	2.689	1.00	0.00
ATOM	73	3HD	PIP	4	1.812	-2.018	1.670	1.00	0.00
ATOM	74	QD	PIP	4	1.972	-1.306	2.180	1.00	0.00
ATOM	75	1HE	PIP	4	4.497	-0.573	1.912	1.00	0.00
ATOM	76	2HE	PIP	4	3.375	-0.448	0.537	1.00	0.00
ATOM	77	QE	PIP	4	3.936	-0.511	1.224	1.00	0.00
ATOM	78	C	PIP	4	3.358	-4.532	1.184	1.00	0.00
ATOM	79	O	PIP	4	2.685	-4.254	0.193	1.00	0.00
ATOM	80	N	ALA	5	3.277	-5.674	1.851	1.00	0.00
ATOM	81	H	ALA	5	3.829	-5.892	2.656	1.00	0.00
ATOM	82	CA	ALA	5	2.350	-6.715	1.441	1.00	0.00
ATOM	83	HA	ALA	5	2.769	-7.205	0.562	1.00	0.00
ATOM	84	QB	ALA	5	2.181	-7.992	2.829	1.00	0.00
ATOM	85	CB	ALA	5	2.214	-7.747	2.562	1.00	0.00
ATOM	86	1HB	ALA	5	3.163	-7.840	3.090	1.00	0.00
ATOM	87	2HB	ALA	5	1.440	-7.425	3.260	1.00	0.00
ATOM	88	3HB	ALA	5	1.939	-8.712	2.136	1.00	0.00
ATOM	89	C	ALA	5	1.010	-6.081	1.066	1.00	0.00
ATOM	90	O	ALA	5	0.660	-5.015	1.572	1.00	0.00
ATOM	91	N	PRO	6	0.277	-6.780	0.159	1.00	0.00
ATOM	92	CD	PRO	6	0.659	-8.045	-0.461	1.00	0.00
ATOM	93	CA	PRO	6	-1.018	-6.296	-0.290	1.00	0.00
ATOM	94	HA	PRO	6	-0.983	-5.310	-0.451	1.00	0.00
ATOM	95	CB	PRO	6	-1.305	-7.066	-1.568	1.00	0.00
ATOM	96	2HB	PRO	6	-1.110	-6.450	-2.447	1.00	0.00
ATOM	97	QB	PRO	6	-1.110	-6.450	-2.447	1.00	0.00
ATOM	98	CG	PRO	6	-0.387	-8.278	-1.539	1.00	0.00
ATOM	99	2HG	PRO	6	0.090	-8.419	-2.509	1.00	0.00
ATOM	100	QG	PRO	6	0.090	-8.419	-2.509	1.00	0.00
ATOM	101	2HD	PRO	6	1.661	-7.990	-0.887	1.00	0.00
ATOM	102	QD	PRO	6	1.661	-7.990	-0.887	1.00	0.00
ATOM	103	C	PRO	6	-2.085	-6.506	0.786	1.00	0.00
ATOM	104	O	PRO	6	-2.383	-7.621	1.231	1.00	0.00
ATOM	105	N	THRM	7	-2.672	-5.402	1.213	1.00	0.00
ATOM	106	QB	THRM	7	-3.963	-5.624	2.510	1.00	0.00
ATOM	107	CN	THRM	7	-3.708	-5.580	2.255	1.00	0.00
ATOM	108	1HNB	THRM	7	-3.806	-6.640	2.493	1.00	0.00
ATOM	109	2HNB	THRM	7	-3.422	-5.030	3.150	1.00	0.00
ATOM	110	3HNB	THRM	7	-4.662	-5.203	1.887	1.00	0.00
ATOM	111	CA	THRM	7	-2.320	-4.087	0.687	1.00	0.00
ATOM	112	HA	THRM	7	-1.223	-4.045	0.558	1.00	0.00
ATOM	113	CB	THRM	7	-3.000	-3.849	-0.703	1.00	0.00
ATOM	114	HB	THRM	7	-3.483	-2.849	-0.690	1.00	0.00
ATOM	115	QG2	THRM	7	-1.827	-3.944	-2.271	1.00	0.00
ATOM	116	OG1	THRM	7	-4.000	-4.833	-0.943	1.00	0.00
ATOM	117	1HG	THRM	7	-4.795	-4.350	-1.184	1.00	0.00
ATOM	118	CG2	THRM	7	-2.077	-3.927	-1.939	1.00	0.00
ATOM	119	1HG2	THRM	7	-2.203	-3.056	-2.607	1.00	0.00
ATOM	120	2HG2	THRM	7	-1.005	-3.943	-1.665	1.00	0.00
ATOM	121	3HG2	THRM	7	-2.274	-4.834	-2.541	1.00	0.00



ATOM	122	C	THRM	7	-2.700	-2.997	1.661	1.00	0.00
ATOM	123	O	THRM	7	-3.549	-3.224	2.522	1.00	0.00
ATOM	124	N	VAL	8	-2.075	-1.839	1.510	1.00	0.00
ATOM	125	H	VAL	8	-1.386	-1.663	0.806	1.00	0.00
ATOM	126	CA	VAL	8	-2.357	-0.716	2.388	1.00	0.00
ATOM	127	HA	VAL	8	-3.365	-0.851	2.780	1.00	0.00
ATOM	128	CB	VAL	8	-1.385	-0.716	3.569	1.00	0.00
ATOM	129	HB	VAL	8	-1.171	0.321	3.827	1.00	0.00
ATOM	130	QG1	VAL	8	-2.160	-1.546	5.084	1.00	0.00
ATOM	131	QG2	VAL	8	0.250	-1.548	3.101	1.00	0.00
ATOM	132	CG1	VAL	8	-2.011	-1.387	4.793	1.00	0.00
ATOM	133	1HG1	VAL	8	-3.008	-1.747	4.540	1.00	0.00
ATOM	134	2HG1	VAL	8	-1.390	-2.226	5.105	1.00	0.00
ATOM	135	3HG1	VAL	8	-2.081	-0.664	5.607	1.00	0.00
ATOM	136	CG2	VAL	8	-0.064	-1.388	3.191	1.00	0.00
ATOM	137	1HG2	VAL	8	0.699	-1.130	3.926	1.00	0.00
ATOM	138	2HG2	VAL	8	-0.198	-2.470	3.173	1.00	0.00
ATOM	139	3HG2	VAL	8	0.250	-1.045	2.206	1.00	0.00
ATOM	140	QQG	VAL	8	-0.955	-1.547	4.093	1.00	0.00
ATOM	141	C	VAL	8	-2.313	0.582	1.577	1.00	0.00
ATOM	142	O	VAL	8	-1.921	0.631	0.405	1.00	0.00
ATOM	143	N	THRM	9	-2.726	1.657	2.222	1.00	0.00
ATOM	144	QB	THRM	9	-3.274	1.393	3.963	1.00	0.00
ATOM	145	CN	THRM	9	-3.166	1.445	3.619	1.00	0.00
ATOM	146	1HNB	THRM	9	-3.065	0.391	3.877	1.00	0.00
ATOM	147	2HNB	THRM	9	-2.548	2.044	4.290	1.00	0.00
ATOM	148	3HNB	THRM	9	-4.209	1.746	3.722	1.00	0.00
ATOM	149	CA	THRM	9	-2.748	2.975	1.595	1.00	0.00
ATOM	150	HA	THRM	9	-2.459	2.861	0.535	1.00	0.00
ATOM	151	CB	THRM	9	-4.186	3.591	1.661	1.00	0.00
ATOM	152	HB	THRM	9	-4.169	4.575	1.144	1.00	0.00
ATOM	153	QG2	THRM	9	-5.630	2.516	0.884	1.00	0.00
ATOM	154	OG1	THRM	9	-4.579	3.795	3.012	1.00	0.00
ATOM	155	1HG	THRM	9	-3.858	4.275	3.431	1.00	0.00
ATOM	156	CG2	THRM	9	-5.324	2.743	1.052	1.00	0.00
ATOM	157	1HG2	THRM	9	-6.133	3.370	0.635	1.00	0.00
ATOM	158	2HG2	THRM	9	-4.975	2.108	0.215	1.00	0.00
ATOM	159	3HG2	THRM	9	-5.781	2.071	1.801	1.00	0.00
ATOM	160	C	THRM	9	-1.741	3.898	2.240	1.00	0.00
ATOM	161	O	THRM	9	-2.081	4.843	2.924	1.00	0.00
ATOM	162	N	VALM	10	-0.472	3.616	2.017	1.00	0.00
ATOM	163	QB	VALM	10	-0.144	2.144	0.955	1.00	0.00
ATOM	164	CN	VALM	10	-0.209	2.434	1.164	1.00	0.00
ATOM	165	1HNB	VALM	10	-0.434	1.526	1.723	1.00	0.00
ATOM	166	2HNB	VALM	10	-0.838	2.479	0.276	1.00	0.00
ATOM	167	3HNB	VALM	10	0.840	2.427	0.867	1.00	0.00
ATOM	168	CA	VALM	10	0.610	4.422	2.576	1.00	0.00
ATOM	169	HA	VALM	10	0.264	5.468	2.668	1.00	0.00
ATOM	170	CB	VALM	10	1.002	3.874	4.005	1.00	0.00
ATOM	171	HB	VALM	10	1.970	3.340	3.897	1.00	0.00
ATOM	172	QG1	VALM	10	1.273	5.223	5.424	1.00	0.00
ATOM	173	QG2	VALM	10	-0.290	2.596	4.742	1.00	0.00
ATOM	174	CG1	VALM	10	1.208	4.938	5.118	1.00	0.00
ATOM	175	1HG1	VALM	10	0.392	5.687	5.146	1.00	0.00
ATOM	176	2HG1	VALM	10	1.270	4.486	6.127	1.00	0.00
ATOM	177	3HG1	VALM	10	2.156	5.496	5.000	1.00	0.00
ATOM	178	CG2	VALM	10	-0.014	2.864	4.590	1.00	0.00
ATOM	179	1HG2	VALM	10	0.432	2.233	5.383	1.00	0.00
ATOM	180	2HG2	VALM	10	-0.891	3.370	5.031	1.00	0.00

ATOM	181	3HG2	VALM	10	-0.411	2.184	3.813	1.00	0.00
ATOM	182	QQG	VALM	10	0.491	3.909	5.083	1.00	0.00
ATOM	183	C	VALM	10	1.808	4.432	1.658	1.00	0.00
ATOM	184	O	VALM	10	2.892	3.938	1.989	1.00	0.00
ATOM	185	N	ILEM	11	1.629	5.000	0.479	1.00	0.00
ATOM	186	QB	ILEM	11	-0.054	5.682	0.158	1.00	0.00
ATOM	187	CN	ILEM	11	0.278	5.547	0.221	1.00	0.00
ATOM	188	1HNB	ILEM	11	-0.356	5.376	1.091	1.00	0.00
ATOM	189	2HNB	ILEM	11	0.350	6.618	0.030	1.00	0.00
ATOM	190	3HNB	ILEM	11	-0.156	5.052	-0.647	1.00	0.00
ATOM	191	CA	ILEM	11	2.699	5.082	-0.511	1.00	0.00
ATOM	192	HA	ILEM	11	2.307	5.641	-1.381	1.00	0.00
ATOM	193	CB	ILEM	11	3.953	5.862	0.059	1.00	0.00
ATOM	194	HB	ILEM	11	3.814	5.925	1.159	1.00	0.00
ATOM	195	QG2	ILEM	11	5.668	4.924	-0.277	1.00	0.00
ATOM	196	CG2	ILEM	11	5.298	5.117	-0.202	1.00	0.00
ATOM	197	1HG2	ILEM	11	5.880	5.577	-1.021	1.00	0.00
ATOM	198	2HG2	ILEM	11	5.982	5.137	0.664	1.00	0.00
ATOM	199	3HG2	ILEM	11	5.142	4.058	-0.474	1.00	0.00
ATOM	200	CG1	ILEM	11	4.099	7.328	-0.461	1.00	0.00
ATOM	201	2HG1	ILEM	11	4.590	7.321	-1.452	1.00	0.00
ATOM	202	QG1	ILEM	11	4.590	7.321	-1.452	1.00	0.00
ATOM	203	QD1	ILEM	11	2.430	8.314	-0.700	1.00	0.00
ATOM	204	CD1	ILEM	11	2.784	8.111	-0.646	1.00	0.00
ATOM	205	1HD1	ILEM	11	2.131	7.625	-1.394	1.00	0.00
ATOM	206	2HD1	ILEM	11	2.207	8.175	0.295	1.00	0.00
ATOM	207	3HD1	ILEM	11	2.952	9.144	-1.001	1.00	0.00
ATOM	208	C	ILEM	11	3.074	3.710	-1.017	1.00	0.00
ATOM	209	O	ILEM	11	2.826	2.681	-0.372	1.00	0.00
ATOM	210	N	PIPO	12	3.680	3.672	-2.189	1.00	0.00
ATOM	211	CE	PIPO	12	4.102	2.434	-2.807	1.00	0.00
ATOM	212	CA	PIPO	12	3.990	4.873	-2.950	1.00	0.00
ATOM	213	HA	PIPO	12	4.480	5.625	-2.330	1.00	0.00
ATOM	214	CB	PIPO	12	4.931	4.572	-4.131	1.00	0.00
ATOM	215	2HB	PIPO	12	5.139	5.493	-4.674	1.00	0.00
ATOM	216	3HB	PIPO	12	5.864	4.153	-3.754	1.00	0.00
ATOM	217	QB	PIPO	12	5.502	4.823	-4.214	1.00	0.00
ATOM	218	CG	PIPO	12	4.259	3.559	-5.077	1.00	0.00
ATOM	219	2HG	PIPO	12	4.925	3.345	-5.912	1.00	0.00
ATOM	220	3HG	PIPO	12	3.326	3.977	-5.454	1.00	0.00
ATOM	221	QG	PIPO	12	4.126	3.661	-5.683	1.00	0.00
ATOM	222	CD	PIPO	12	3.922	2.534	-4.334	1.00	0.00
ATOM	223	2HD	PIPO	12	4.239	1.600	-4.799	1.00	0.00
ATOM	224	3HD	PIPO	12	2.873	2.716	-4.566	1.00	0.00
ATOM	225	QD	PIPO	12	3.556	2.158	-4.682	1.00	0.00
ATOM	226	1HE	PIPO	12	5.151	2.250	-2.577	1.00	0.00
ATOM	227	2HE	PIPO	12	3.498	1.611	-2.424	1.00	0.00
ATOM	228	QE	PIPO	12	4.324	1.931	-2.500	1.00	0.00
ATOM	229	C	PIPO	12	2.721	5.519	-3.531	1.00	0.00
ATOM	230	O	PIPO	12	2.552	6.731	-3.351	1.00	0.00
ATOM	231	O1'	PHEO	13	1.856	4.785	-4.207	1.00	0.00
ATOM	232	CA	PHEO	13	0.455	5.171	-4.342	1.00	0.00
ATOM	233	HA	PHEO	13	0.369	6.084	-4.959	1.00	0.00
ATOM	234	CB	PHEO	13	-0.137	5.431	-2.923	1.00	0.00
ATOM	235	2HB	PHEO	13	0.670	5.772	-2.245	1.00	0.00
ATOM	236	QB	PHEO	13	0.670	5.772	-2.245	1.00	0.00
ATOM	237	QD	PHEO	13	-1.437	6.536	-2.853	1.00	0.00
ATOM	238	QE	PHEO	13	-3.353	8.080	-2.810	1.00	0.00
ATOM	239	QR	PHEO	13	-2.779	7.617	-2.823	1.00	0.00

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ATOM	240	CG	PHEO	13	-1.296	6.437	-2.839	1.00	0.00
ATOM	241	CD1	PHEO	13	-2.486	6.069	-2.202	1.00	0.00
ATOM	242	1HD	PHEO	13	-2.582	5.089	-1.754	1.00	0.00
ATOM	243	CE1	PHEO	13	-3.573	6.937	-2.187	1.00	0.00
ATOM	244	1HE	PHEO	13	-4.496	6.631	-1.718	1.00	0.00
ATOM	245	CZ	PHEO	13	-3.471	8.186	-2.796	1.00	0.00
ATOM	246	HZ	PHEO	13	-4.317	8.856	-2.788	1.00	0.00
ATOM	247	CE2	PHEO	13	-2.285	8.564	-3.423	1.00	0.00
ATOM	248	2HE	PHEO	13	-2.209	9.529	-3.901	1.00	0.00
ATOM	249	CD2	PHEO	13	-1.200	7.691	-3.448	1.00	0.00
ATOM	250	2HD	PHEO	13	-0.291	7.982	-3.953	1.00	0.00
ATOM	251	C	PHEO	13	-0.349	4.069	-4.989	1.00	0.00
ATOM	252	O	PHEO	13	-1.587	4.186	-5.213	1.00	0.00
TER									
ENDMDL									
MODEL 11									
ATOM	1	N	VALM	1	0.057	3.256	-5.029	1.00	0.00
ATOM	2	QB	VALM	1	1.123	3.264	-6.534	1.00	0.00
ATOM	3	CN	VALM	1	0.912	3.262	-6.237	1.00	0.00
ATOM	4	1HNB	VALM	1	1.945	3.464	-5.951	1.00	0.00
ATOM	5	2HNB	VALM	1	0.855	2.291	-6.729	1.00	0.00
ATOM	6	3HNB	VALM	1	0.568	4.037	-6.922	1.00	0.00
ATOM	7	CA	VALM	1	-0.319	2.017	-4.354	1.00	0.00
ATOM	8	HA	VALM	1	-1.328	2.142	-3.917	1.00	0.00
ATOM	9	CB	VALM	1	-0.344	0.827	-5.393	1.00	0.00
ATOM	10	HB	VALM	1	-0.221	1.272	-6.404	1.00	0.00
ATOM	11	QG1	VALM	1	1.071	-0.539	-5.209	1.00	0.00
ATOM	12	QG2	VALM	1	-2.030	-0.175	-5.408	1.00	0.00
ATOM	13	CG1	VALM	1	0.774	-0.242	-5.243	1.00	0.00
ATOM	14	1HG1	VALM	1	1.564	0.069	-4.534	1.00	0.00
ATOM	15	2HG1	VALM	1	0.380	-1.214	-4.888	1.00	0.00
ATOM	16	3HG1	VALM	1	1.270	-0.472	-6.204	1.00	0.00
ATOM	17	CG2	VALM	1	-1.672	0.032	-5.404	1.00	0.00
ATOM	18	1HG2	VALM	1	-1.507	-1.060	-5.336	1.00	0.00
ATOM	19	2HG2	VALM	1	-2.328	0.315	-4.562	1.00	0.00
ATOM	20	3HG2	VALM	1	-2.256	0.219	-6.325	1.00	0.00
ATOM	21	QQG	VALM	1	-0.479	-0.357	-5.308	1.00	0.00
ATOM	22	C	VALM	1	0.622	1.715	-3.213	1.00	0.00
ATOM	23	O	VALM	1	1.624	2.412	-3.053	1.00	0.00
ATOM	24	N	PRO	2	0.282	0.663	-2.422	1.00	0.00
ATOM	25	CD	PRO	2	-0.897	-0.184	-2.581	1.00	0.00
ATOM	26	CA	PRO	2	1.110	0.277	-1.293	1.00	0.00
ATOM	27	HA	PRO	2	1.423	1.088	-0.798	1.00	0.00
ATOM	28	CB	PRO	2	0.216	-0.599	-0.430	1.00	0.00
ATOM	29	2HB	PRO	2	-0.162	-0.045	0.429	1.00	0.00
ATOM	30	QB	PRO	2	-0.162	-0.045	0.429	1.00	0.00
ATOM	31	CG	PRO	2	-0.921	-1.050	-1.332	1.00	0.00
ATOM	32	2HG	PRO	2	-1.877	-0.953	-0.818	1.00	0.00
ATOM	33	QG	PRO	2	-1.877	-0.953	-0.818	1.00	0.00
ATOM	34	2HD	PRO	2	-1.805	0.412	-2.667	1.00	0.00
ATOM	35	QD	PRO	2	-1.805	0.412	-2.667	1.00	0.00
ATOM	36	C	PRO	2	2.377	-0.442	-1.762	1.00	0.00
ATOM	37	O	PRO	2	2.401	-1.019	-2.848	1.00	0.00
ATOM	38	N	ILE	3	3.398	-0.382	-0.921	1.00	0.00
ATOM	39	H	ILE	3	3.371	0.089	-0.040	1.00	0.00
ATOM	40	CA	ILE	3	4.665	-1.020	-1.236	1.00	0.00
ATOM	41	HA	ILE	3	4.662	-1.243	-2.303	1.00	0.00
ATOM	42	CB	ILE	3	5.828	-0.059	-0.978	1.00	0.00
ATOM	43	HB	ILE	3	6.533	-0.549	-0.308	1.00	0.00

ATOM	44	QG2	ILE	3	6.758	0.327	-2.582	1.00	0.00
ATOM	45	CG2	ILE	3	6.579	0.253	-2.274	1.00	0.00
ATOM	46	1HG2	ILE	3	5.863	0.396	-3.084	1.00	0.00
ATOM	47	2HG2	ILE	3	7.168	1.161	-2.144	1.00	0.00
ATOM	48	3HG2	ILE	3	7.242	-0.578	-2.518	1.00	0.00
ATOM	49	CG1	ILE	3	5.344	1.211	-0.277	1.00	0.00
ATOM	50	2HG1	ILE	3	4.396	1.531	-0.710	1.00	0.00
ATOM	51	QG1	ILE	3	4.396	1.531	-0.710	1.00	0.00
ATOM	52	QD1	ILE	3	5.130	0.920	1.582	1.00	0.00
ATOM	53	CD1	ILE	3	5.171	0.976	1.224	1.00	0.00
ATOM	54	1HD1	ILE	3	5.697	1.754	1.778	1.00	0.00
ATOM	55	2HD1	ILE	3	4.111	1.005	1.478	1.00	0.00
ATOM	56	3HD1	ILE	3	5.581	0.002	1.490	1.00	0.00
ATOM	57	C	ILE	3	4.774	-2.337	-0.466	1.00	0.00
ATOM	58	O	ILE	3	5.276	-3.364	-0.950	1.00	0.00
ATOM	59	N	PIP	4	4.292	-2.307	0.762	1.00	0.00
ATOM	60	CE	PIP	4	3.706	-1.117	1.339	1.00	0.00
ATOM	61	CA	PIP	4	4.327	-3.462	1.645	1.00	0.00
ATOM	62	HA	PIP	4	5.317	-3.918	1.672	1.00	0.00
ATOM	63	CB	PIP	4	3.959	-3.085	3.092	1.00	0.00
ATOM	64	2HB	PIP	4	3.996	-3.973	3.721	1.00	0.00
ATOM	65	3HB	PIP	4	4.667	-2.346	3.465	1.00	0.00
ATOM	66	QB	PIP	4	4.331	-3.159	3.593	1.00	0.00
ATOM	67	CG	PIP	4	2.538	-2.493	3.122	1.00	0.00
ATOM	68	2HG	PIP	4	2.277	-2.226	4.146	1.00	0.00
ATOM	69	3HG	PIP	4	1.828	-3.232	2.749	1.00	0.00
ATOM	70	QG	PIP	4	2.053	-2.729	3.447	1.00	0.00
ATOM	71	CD	PIP	4	2.531	-1.513	2.251	1.00	0.00
ATOM	72	2HD	PIP	4	2.089	-0.616	2.685	1.00	0.00
ATOM	73	3HD	PIP	4	1.778	-2.042	1.667	1.00	0.00
ATOM	74	QD	PIP	4	1.933	-1.329	2.176	1.00	0.00
ATOM	75	1HE	PIP	4	4.457	-0.587	1.923	1.00	0.00
ATOM	76	2HE	PIP	4	3.343	-0.468	0.541	1.00	0.00
ATOM	77	QE	PIP	4	3.900	-0.528	1.232	1.00	0.00
ATOM	78	C	PIP	4	3.339	-4.551	1.193	1.00	0.00
ATOM	79	O	PIP	4	2.689	-4.288	0.182	1.00	0.00
ATOM	80	N	ALA	5	3.237	-5.681	1.878	1.00	0.00
ATOM	81	H	ALA	5	3.769	-5.886	2.700	1.00	0.00
ATOM	82	CA	ALA	5	2.318	-6.726	1.465	1.00	0.00
ATOM	83	HA	ALA	5	2.756	-7.234	0.605	1.00	0.00
ATOM	84	QB	ALA	5	2.110	-7.978	2.870	1.00	0.00
ATOM	85	CB	ALA	5	2.150	-7.738	2.601	1.00	0.00
ATOM	86	1HB	ALA	5	3.039	-8.367	2.662	1.00	0.00
ATOM	87	2HB	ALA	5	2.015	-7.207	3.542	1.00	0.00
ATOM	88	3HB	ALA	5	1.277	-8.361	2.406	1.00	0.00
ATOM	89	C	ALA	5	0.988	-6.094	1.047	1.00	0.00
ATOM	90	O	ALA	5	0.633	-5.017	1.522	1.00	0.00
ATOM	91	N	PRO	6	0.272	-6.810	0.138	1.00	0.00
ATOM	92	CD	PRO	6	0.662	-8.090	-0.446	1.00	0.00
ATOM	93	CA	PRO	6	-1.010	-6.330	-0.349	1.00	0.00
ATOM	94	HA	PRO	6	-0.967	-5.348	-0.531	1.00	0.00
ATOM	95	CB	PRO	6	-1.271	-7.126	-1.617	1.00	0.00
ATOM	96	2HB	PRO	6	-1.055	-6.530	-2.505	1.00	0.00
ATOM	97	QB	PRO	6	-1.055	-6.530	-2.505	1.00	0.00
ATOM	98	CG	PRO	6	-0.360	-8.341	-1.542	1.00	0.00
ATOM	99	2HG	PRO	6	0.137	-8.505	-2.498	1.00	0.00
ATOM	100	QG	PRO	6	0.137	-8.505	-2.498	1.00	0.00
ATOM	101	2HD	PRO	6	1.674	-8.048	-0.850	1.00	0.00
ATOM	102	QD	PRO	6	1.674	-8.048	-0.850	1.00	0.00

ATOM	103	C	PRO	6	-2.101	-6.512	0.707	1.00	0.00
ATOM	104	O	PRO	6	-2.490	-7.623	1.088	1.00	0.00
ATOM	105	N	THRM	7	-2.604	-5.391	1.189	1.00	0.00
ATOM	106	QB	THRM	7	-3.923	-5.580	2.464	1.00	0.00
ATOM	107	CN	THRM	7	-3.663	-5.542	2.212	1.00	0.00
ATOM	108	1HNB	THRM	7	-3.845	-6.602	2.393	1.00	0.00
ATOM	109	2HNB	THRM	7	-3.343	-5.066	3.138	1.00	0.00
ATOM	110	3HNB	THRM	7	-4.580	-5.072	1.860	1.00	0.00
ATOM	111	CA	THRM	7	-2.145	-4.080	0.738	1.00	0.00
ATOM	112	HA	THRM	7	-1.040	-4.087	0.718	1.00	0.00
ATOM	113	CB	THRM	7	-2.673	-3.779	-0.705	1.00	0.00
ATOM	114	HB	THRM	7	-1.803	-3.740	-1.395	1.00	0.00
ATOM	115	QG2	THRM	7	-3.984	-5.041	-1.434	1.00	0.00
ATOM	116	OG1	THRM	7	-3.336	-2.521	-0.739	1.00	0.00
ATOM	117	1HG	THRM	7	-3.351	-2.252	-1.663	1.00	0.00
ATOM	118	CG2	THRM	7	-3.704	-4.775	-1.279	1.00	0.00
ATOM	119	1HG2	THRM	7	-4.650	-4.769	-0.709	1.00	0.00
ATOM	120	2HG2	THRM	7	-3.981	-4.541	-2.324	1.00	0.00
ATOM	121	3HG2	THRM	7	-3.321	-5.813	-1.269	1.00	0.00
ATOM	122	C	THRM	7	-2.572	-2.997	1.700	1.00	0.00
ATOM	123	O	THRM	7	-3.384	-3.260	2.585	1.00	0.00
ATOM	124	N	VAL	8	-2.022	-1.807	1.515	1.00	0.00
ATOM	125	H	VAL	8	-1.361	-1.602	0.793	1.00	0.00
ATOM	126	CA	VAL	8	-2.355	-0.687	2.378	1.00	0.00
ATOM	127	HA	VAL	8	-3.375	-0.835	2.732	1.00	0.00
ATOM	128	CB	VAL	8	-1.429	-0.670	3.595	1.00	0.00
ATOM	129	HB	VAL	8	-1.214	0.370	3.840	1.00	0.00
ATOM	130	QG1	VAL	8	-2.271	-1.458	5.098	1.00	0.00
ATOM	131	QG2	VAL	8	0.214	-1.530	3.210	1.00	0.00
ATOM	132	CG1	VAL	8	-2.109	-1.307	4.810	1.00	0.00
ATOM	133	1HG1	VAL	8	-3.038	-1.784	4.497	1.00	0.00
ATOM	134	2HG1	VAL	8	-1.446	-2.053	5.247	1.00	0.00
ATOM	135	3HG1	VAL	8	-2.328	-0.536	5.548	1.00	0.00
ATOM	136	CG2	VAL	8	-0.101	-1.365	3.284	1.00	0.00
ATOM	137	1HG2	VAL	8	-0.228	-2.445	3.366	1.00	0.00
ATOM	138	2HG2	VAL	8	0.212	-1.111	2.271	1.00	0.00
ATOM	139	3HG2	VAL	8	0.658	-1.033	3.993	1.00	0.00
ATOM	140	QQG	VAL	8	-1.028	-1.494	4.154	1.00	0.00
ATOM	141	C	VAL	8	-2.299	0.610	1.567	1.00	0.00
ATOM	142	O	VAL	8	-1.880	0.660	0.405	1.00	0.00
ATOM	143	N	THRM	9	-2.734	1.684	2.201	1.00	0.00
ATOM	144	QB	THRM	9	-3.321	1.419	3.929	1.00	0.00
ATOM	145	CN	THRM	9	-3.205	1.471	3.588	1.00	0.00
ATOM	146	1HNB	THRM	9	-3.104	0.418	3.850	1.00	0.00
ATOM	147	2HNB	THRM	9	-2.607	2.074	4.271	1.00	0.00
ATOM	148	3HNB	THRM	9	-4.252	1.766	3.665	1.00	0.00
ATOM	149	CA	THRM	9	-2.749	3.001	1.572	1.00	0.00
ATOM	150	HA	THRM	9	-2.443	2.886	0.516	1.00	0.00
ATOM	151	CB	THRM	9	-4.190	3.614	1.614	1.00	0.00
ATOM	152	HB	THRM	9	-4.285	4.219	2.541	1.00	0.00
ATOM	153	QG2	THRM	9	-4.700	4.740	0.092	1.00	0.00
ATOM	154	OG1	THRM	9	-5.169	2.584	1.641	1.00	0.00
ATOM	155	1HG	THRM	9	-5.939	2.959	2.078	1.00	0.00
ATOM	156	CG2	THRM	9	-4.592	4.498	0.414	1.00	0.00
ATOM	157	1HG2	THRM	9	-5.303	5.294	0.703	1.00	0.00
ATOM	158	2HG2	THRM	9	-3.727	5.019	-0.037	1.00	0.00
ATOM	159	3HG2	THRM	9	-5.071	3.907	-0.389	1.00	0.00
ATOM	160	C	THRM	9	-1.756	3.927	2.232	1.00	0.00
ATOM	161	O	THRM	9	-2.107	4.858	2.926	1.00	0.00

ATOM	162	N	VALM	10	-0.481	3.664	2.007	1.00	0.00
ATOM	163	QB	VALM	10	-0.135	2.209	0.927	1.00	0.00
ATOM	164	CN	VALM	10	-0.203	2.496	1.140	1.00	0.00
ATOM	165	1HNB	VALM	10	-0.839	2.540	0.256	1.00	0.00
ATOM	166	2HNB	VALM	10	0.843	2.510	0.836	1.00	0.00
ATOM	167	3HNB	VALM	10	-0.410	1.578	1.690	1.00	0.00
ATOM	168	CA	VALM	10	0.589	4.475	2.580	1.00	0.00
ATOM	169	HA	VALM	10	0.243	5.522	2.651	1.00	0.00
ATOM	170	CB	VALM	10	0.950	3.944	4.024	1.00	0.00
ATOM	171	HB	VALM	10	1.888	3.358	3.934	1.00	0.00
ATOM	172	QG1	VALM	10	1.288	5.314	5.408	1.00	0.00
ATOM	173	QG2	VALM	10	-0.409	2.754	4.789	1.00	0.00
ATOM	174	CG1	VALM	10	1.209	5.024	5.110	1.00	0.00
ATOM	175	1HG1	VALM	10	0.347	5.706	5.245	1.00	0.00
ATOM	176	2HG1	VALM	10	1.431	4.581	6.100	1.00	0.00
ATOM	177	3HG1	VALM	10	2.087	5.655	4.878	1.00	0.00
ATOM	178	CG2	VALM	10	-0.119	3.003	4.631	1.00	0.00
ATOM	179	1HG2	VALM	10	0.288	2.379	5.449	1.00	0.00
ATOM	180	2HG2	VALM	10	-0.975	3.565	5.047	1.00	0.00
ATOM	181	3HG2	VALM	10	-0.541	2.317	3.873	1.00	0.00
ATOM	182	QQG	VALM	10	0.439	4.034	5.098	1.00	0.00
ATOM	183	C	VALM	10	1.807	4.471	1.687	1.00	0.00
ATOM	184	O	VALM	10	2.890	4.000	2.057	1.00	0.00
ATOM	185	N	ILEM	11	1.647	5.001	0.489	1.00	0.00
ATOM	186	QB	ILEM	11	-0.035	5.655	0.112	1.00	0.00
ATOM	187	CN	ILEM	11	0.297	5.525	0.186	1.00	0.00
ATOM	188	1HNB	ILEM	11	-0.354	5.373	1.047	1.00	0.00
ATOM	189	2HNB	ILEM	11	0.362	6.591	-0.035	1.00	0.00
ATOM	190	3HNB	ILEM	11	-0.112	5.000	-0.676	1.00	0.00
ATOM	191	CA	ILEM	11	2.738	5.067	-0.480	1.00	0.00
ATOM	192	HA	ILEM	11	2.378	5.646	-1.350	1.00	0.00
ATOM	193	CB	ILEM	11	4.001	5.806	0.124	1.00	0.00
ATOM	194	HB	ILEM	11	3.834	5.878	1.219	1.00	0.00
ATOM	195	QG2	ILEM	11	5.689	4.806	-0.170	1.00	0.00
ATOM	196	CG2	ILEM	11	5.328	5.017	-0.099	1.00	0.00
ATOM	197	1HG2	ILEM	11	5.450	4.688	-1.147	1.00	0.00
ATOM	198	2HG2	ILEM	11	6.231	5.619	0.105	1.00	0.00
ATOM	199	3HG2	ILEM	11	5.385	4.112	0.533	1.00	0.00
ATOM	200	CG1	ILEM	11	4.210	7.266	-0.395	1.00	0.00
ATOM	201	2HG1	ILEM	11	4.554	7.908	0.438	1.00	0.00
ATOM	202	QG1	ILEM	11	4.554	7.908	0.438	1.00	0.00
ATOM	203	QD1	ILEM	11	5.534	7.476	-1.816	1.00	0.00
ATOM	204	CD1	ILEM	11	5.254	7.438	-1.518	1.00	0.00
ATOM	205	1HD1	ILEM	11	5.946	6.577	-1.555	1.00	0.00
ATOM	206	2HD1	ILEM	11	4.776	7.513	-2.513	1.00	0.00
ATOM	207	3HD1	ILEM	11	5.878	8.339	-1.381	1.00	0.00
ATOM	208	C	ILEM	11	3.086	3.691	-0.996	1.00	0.00
ATOM	209	O	ILEM	11	2.845	2.664	-0.344	1.00	0.00
ATOM	210	N	PIPO	12	3.663	3.648	-2.182	1.00	0.00
ATOM	211	CE	PIPO	12	4.056	2.405	-2.811	1.00	0.00
ATOM	212	CA	PIPO	12	3.965	4.846	-2.949	1.00	0.00
ATOM	213	HA	PIPO	12	4.478	5.593	-2.342	1.00	0.00
ATOM	214	CB	PIPO	12	4.873	4.536	-4.154	1.00	0.00
ATOM	215	2HB	PIPO	12	5.077	5.455	-4.702	1.00	0.00
ATOM	216	3HB	PIPO	12	5.812	4.108	-3.801	1.00	0.00
ATOM	217	QB	PIPO	12	5.445	4.781	-4.251	1.00	0.00
ATOM	218	CG	PIPO	12	4.168	3.531	-5.083	1.00	0.00
ATOM	219	2HG	PIPO	12	4.811	3.311	-5.936	1.00	0.00
ATOM	220	3HG	PIPO	12	3.230	3.959	-5.436	1.00	0.00

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ATOM	221	QG	PIPO	12	4.020	3.635	-5.686	1.00	0.00
ATOM	222	CD	PIPO	12	3.839	2.508	-4.332	1.00	0.00
ATOM	223	2HD	PIPO	12	4.136	1.572	-4.806	1.00	0.00
ATOM	224	3HD	PIPO	12	2.786	2.701	-4.538	1.00	0.00
ATOM	225	OD	PIPO	12	3.461	2.137	-4.672	1.00	0.00
ATOM	226	1HE	PIPO	12	5.109	2.212	-2.606	1.00	0.00
ATOM	227	2HE	PIPO	12	3.453	1.589	-2.413	1.00	0.00
ATOM	228	QE	PIPO	12	4.281	1.900	-2.510	1.00	0.00
ATOM	229	C	PIPO	12	2.689	5.505	-3.499	1.00	0.00
ATOM	230	O	PIPO	12	2.504	6.703	-3.255	1.00	0.00
ATOM	231	O1'	PHEO	13	1.835	4.797	-4.214	1.00	0.00
ATOM	232	CA	PHEO	13	0.431	5.178	-4.343	1.00	0.00
ATOM	233	HA	PHEO	13	0.341	6.084	-4.972	1.00	0.00
ATOM	234	CB	PHEO	13	-0.149	5.455	-2.924	1.00	0.00
ATOM	235	2HB	PHEO	13	0.671	5.760	-2.244	1.00	0.00
ATOM	236	QB	PHEO	13	0.671	5.760	-2.244	1.00	0.00
ATOM	237	QD	PHEO	13	-1.399	6.615	-2.852	1.00	0.00
ATOM	238	QE	PHEO	13	-3.236	8.254	-2.819	1.00	0.00
ATOM	239	QR	PHEO	13	-2.686	7.763	-2.830	1.00	0.00
ATOM	240	CG	PHEO	13	-1.267	6.506	-2.835	1.00	0.00
ATOM	241	CD1	PHEO	13	-2.560	6.112	-2.471	1.00	0.00
ATOM	242	1HD	PHEO	13	-2.766	5.077	-2.235	1.00	0.00
ATOM	243	CE1	PHEO	13	-3.599	7.036	-2.464	1.00	0.00
ATOM	244	1HE	PHEO	13	-4.600	6.715	-2.211	1.00	0.00
ATOM	245	CZ	PHEO	13	-3.351	8.363	-2.805	1.00	0.00
ATOM	246	HZ	PHEO	13	-4.161	9.077	-2.804	1.00	0.00
ATOM	247	CE2	PHEO	13	-2.064	8.765	-3.157	1.00	0.00
ATOM	248	2HE	PHEO	13	-1.873	9.793	-3.428	1.00	0.00
ATOM	249	CD2	PHEO	13	-1.024	7.839	-3.175	1.00	0.00
ATOM	250	2HD	PHEO	13	-0.033	8.154	-3.470	1.00	0.00
ATOM	251	C	PHEO	13	-0.375	4.067	-4.971	1.00	0.00
ATOM	252	O	PHEO	13	-1.565	4.240	-5.357	1.00	0.00
<u>TER</u>									
<u>ENDMDL</u>									
<u>MODEL</u> 12									
ATOM	1	N	VALM	1	-0.677	3.402	-4.457	1.00	0.00
ATOM	2	QB	VALM	1	-2.404	4.027	-4.616	1.00	0.00
ATOM	3	CN	VALM	1	-2.064	3.903	-4.586	1.00	0.00
ATOM	4	1HNB	VALM	1	-2.071	4.797	-5.209	1.00	0.00
ATOM	5	2HNB	VALM	1	-2.687	3.136	-5.043	1.00	0.00
ATOM	6	3HNB	VALM	1	-2.455	4.148	-3.597	1.00	0.00
ATOM	7	CA	VALM	1	-0.376	1.977	-4.358	1.00	0.00
ATOM	8	HA	VALM	1	-1.311	1.430	-4.133	1.00	0.00
ATOM	9	CB	VALM	1	0.217	1.458	-5.727	1.00	0.00
ATOM	10	HB	VALM	1	1.048	2.141	-6.005	1.00	0.00
ATOM	11	QG1	VALM	1	0.964	-0.372	-5.713	1.00	0.00
ATOM	12	QG2	VALM	1	-1.064	1.477	-7.214	1.00	0.00
ATOM	13	CG1	VALM	1	0.810	0.022	-5.722	1.00	0.00
ATOM	14	1HG1	VALM	1	1.675	-0.082	-6.404	1.00	0.00
ATOM	15	2HG1	VALM	1	1.148	-0.289	-4.715	1.00	0.00
ATOM	16	3HG1	VALM	1	0.068	-0.744	-6.020	1.00	0.00
ATOM	17	CG2	VALM	1	-0.797	1.476	-6.897	1.00	0.00
ATOM	18	1HG2	VALM	1	-1.760	1.940	-6.610	1.00	0.00
ATOM	19	2HG2	VALM	1	-0.412	2.036	-7.767	1.00	0.00
ATOM	20	3HG2	VALM	1	-1.020	0.456	-7.263	1.00	0.00
ATOM	21	QQG	VALM	1	-0.050	0.553	-6.463	1.00	0.00
ATOM	22	C	VALM	1	0.580	1.703	-3.221	1.00	0.00
ATOM	23	O	VALM	1	1.566	2.422	-3.073	1.00	0.00
ATOM	24	N	PRO	2	0.267	0.649	-2.420	1.00	0.00

ATOM	25	CD	PRO	2	-0.893	-0.224	-2.566	1.00	0.00
ATOM	26	CA	PRO	2	1.112	0.290	-1.294	1.00	0.00
ATOM	27	HA	PRO	2	1.410	1.110	-0.808	1.00	0.00
ATOM	28	CB	PRO	2	0.243	-0.600	-0.420	1.00	0.00
ATOM	29	2HB	PRO	2	-0.142	-0.048	0.438	1.00	0.00
ATOM	30	QB	PRO	2	-0.142	-0.048	0.438	1.00	0.00
ATOM	31	CG	PRO	2	-0.890	-1.082	-1.310	1.00	0.00
ATOM	32	2HG	PRO	2	-1.845	-1.001	-0.791	1.00	0.00
ATOM	33	QG	PRO	2	-1.845	-1.001	-0.791	1.00	0.00
ATOM	34	2HD	PRO	2	-1.814	0.352	-2.649	1.00	0.00
ATOM	35	QD	PRO	2	-1.814	0.352	-2.649	1.00	0.00
ATOM	36	C	PRO	2	2.391	-0.404	-1.768	1.00	0.00
ATOM	37	O	PRO	2	2.441	-0.930	-2.878	1.00	0.00
ATOM	38	N	ILE	3	3.394	-0.383	-0.901	1.00	0.00
ATOM	39	H	ILE	3	3.343	0.046	0.001	1.00	0.00
ATOM	40	CA	ILE	3	4.669	-1.003	-1.216	1.00	0.00
ATOM	41	HA	ILE	3	4.675	-1.212	-2.286	1.00	0.00
ATOM	42	CB	ILE	3	5.819	-0.034	-0.938	1.00	0.00
ATOM	43	HB	ILE	3	6.517	-0.518	-0.254	1.00	0.00
ATOM	44	QG2	ILE	3	6.774	0.360	-2.524	1.00	0.00
ATOM	45	CG2	ILE	3	6.591	0.284	-2.220	1.00	0.00
ATOM	46	1HG2	ILE	3	7.089	1.248	-2.114	1.00	0.00
ATOM	47	2HG2	ILE	3	7.335	-0.492	-2.398	1.00	0.00
ATOM	48	3HG2	ILE	3	5.897	0.324	-3.061	1.00	0.00
ATOM	49	CG1	ILE	3	5.313	1.232	-0.244	1.00	0.00
ATOM	50	2HG1	ILE	3	4.358	1.530	-0.674	1.00	0.00
ATOM	51	QG1	ILE	3	4.358	1.530	-0.674	1.00	0.00
ATOM	52	QD1	ILE	3	5.114	0.953	1.618	1.00	0.00
ATOM	53	CD1	ILE	3	5.152	1.006	1.261	1.00	0.00
ATOM	54	1HD1	ILE	3	5.599	0.050	1.534	1.00	0.00
ATOM	55	2HD1	ILE	3	5.651	1.809	1.804	1.00	0.00
ATOM	56	3HD1	ILE	3	4.093	0.999	1.517	1.00	0.00
ATOM	57	C	ILE	3	4.786	-2.330	-0.463	1.00	0.00
ATOM	58	O	ILE	3	5.272	-3.353	-0.968	1.00	0.00
ATOM	59	N	PIP	4	4.329	-2.311	0.775	1.00	0.00
ATOM	60	CE	PIP	4	3.759	-1.124	1.376	1.00	0.00
ATOM	61	CA	PIP	4	4.375	-3.476	1.644	1.00	0.00
ATOM	62	HA	PIP	4	5.363	-3.937	1.646	1.00	0.00
ATOM	63	CB	PIP	4	4.038	-3.113	3.102	1.00	0.00
ATOM	64	2HB	PIP	4	4.083	-4.009	3.720	1.00	0.00
ATOM	65	3HB	PIP	4	4.757	-2.381	3.470	1.00	0.00
ATOM	66	QB	PIP	4	4.420	-3.195	3.595	1.00	0.00
ATOM	67	CG	PIP	4	2.621	-2.515	3.167	1.00	0.00
ATOM	68	2HG	PIP	4	2.381	-2.258	4.199	1.00	0.00
ATOM	69	3HG	PIP	4	1.900	-3.247	2.800	1.00	0.00
ATOM	70	QG	PIP	4	2.140	-2.752	3.499	1.00	0.00
ATOM	71	CD	PIP	4	2.601	-1.526	2.308	1.00	0.00
ATOM	72	2HD	PIP	4	2.172	-0.631	2.760	1.00	0.00
ATOM	73	3HD	PIP	4	1.835	-2.045	1.733	1.00	0.00
ATOM	74	QD	PIP	4	2.003	-1.338	2.246	1.00	0.00
ATOM	75	1HE	PIP	4	4.525	-0.605	1.951	1.00	0.00
ATOM	76	2HE	PIP	4	3.384	-0.465	0.593	1.00	0.00
ATOM	77	QE	PIP	4	3.954	-0.535	1.272	1.00	0.00
ATOM	78	C	PIP	4	3.373	-4.555	1.199	1.00	0.00
ATOM	79	O	PIP	4	2.675	-4.261	0.230	1.00	0.00
ATOM	80	N	ALA	5	3.310	-5.710	1.847	1.00	0.00
ATOM	81	H	ALA	5	3.881	-5.941	2.635	1.00	0.00
ATOM	82	CA	ALA	5	2.376	-6.746	1.439	1.00	0.00
ATOM	83	HA	ALA	5	2.790	-7.236	0.558	1.00	0.00



ATOM	84	QB	ALA	5	2.208	-8.025	2.825	1.00	0.00
ATOM	85	CB	ALA	5	2.240	-7.780	2.560	1.00	0.00
ATOM	86	1HB	ALA	5	2.586	-7.346	3.497	1.00	0.00
ATOM	87	2HB	ALA	5	1.195	-8.073	2.658	1.00	0.00
ATOM	88	3HB	ALA	5	2.842	-8.656	2.320	1.00	0.00
ATOM	89	C	ALA	5	1.037	-6.105	1.072	1.00	0.00
ATOM	90	O	ALA	5	0.695	-5.038	1.580	1.00	0.00
ATOM	91	N	PRO	6	0.296	-6.799	0.168	1.00	0.00
ATOM	92	CD	PRO	6	0.669	-8.066	-0.454	1.00	0.00
ATOM	93	CA	PRO	6	-0.998	-6.310	-0.274	1.00	0.00
ATOM	94	HA	PRO	6	-0.960	-5.324	-0.435	1.00	0.00
ATOM	95	CB	PRO	6	-1.295	-7.078	-1.552	1.00	0.00
ATOM	96	2HB	PRO	6	-1.103	-6.463	-2.430	1.00	0.00
ATOM	97	QB	PRO	6	-1.103	-6.463	-2.430	1.00	0.00
ATOM	98	CG	PRO	6	-0.384	-8.294	-1.528	1.00	0.00
ATOM	99	2HG	PRO	6	0.087	-8.438	-2.500	1.00	0.00
ATOM	100	QG	PRO	6	0.087	-8.438	-2.500	1.00	0.00
ATOM	101	2HD	PRO	6	1.668	-8.017	-0.885	1.00	0.00
ATOM	102	QD	PRO	6	1.668	-8.017	-0.885	1.00	0.00
ATOM	103	C	PRO	6	-2.061	-6.515	0.808	1.00	0.00
ATOM	104	O	PRO	6	-2.353	-7.627	1.263	1.00	0.00
ATOM	105	N	THRM	7	-2.651	-5.411	1.227	1.00	0.00
ATOM	106	QB	THRM	7	-3.937	-5.627	2.531	1.00	0.00
ATOM	107	CN	THRM	7	-3.683	-5.584	2.273	1.00	0.00
ATOM	108	1HNB	THRM	7	-3.775	-6.641	2.523	1.00	0.00
ATOM	109	2HNB	THRM	7	-3.396	-5.026	3.164	1.00	0.00
ATOM	110	3HNB	THRM	7	-4.639	-5.213	1.905	1.00	0.00
ATOM	111	CA	THRM	7	-2.307	-4.098	0.690	1.00	0.00
ATOM	112	HA	THRM	7	-1.210	-4.050	0.561	1.00	0.00
ATOM	113	CB	THRM	7	-2.986	-3.878	-0.703	1.00	0.00
ATOM	114	HB	THRM	7	-3.487	-2.886	-0.695	1.00	0.00
ATOM	115	QG2	THRM	7	-1.812	-3.962	-2.271	1.00	0.00
ATOM	116	OG1	THRM	7	-3.968	-4.879	-0.943	1.00	0.00
ATOM	117	1HG	THRM	7	-4.805	-4.507	-0.647	1.00	0.00
ATOM	118	CG2	THRM	7	-2.059	-3.944	-1.937	1.00	0.00
ATOM	119	1HG2	THRM	7	-2.256	-4.835	-2.558	1.00	0.00
ATOM	120	2HG2	THRM	7	-2.188	-3.075	-2.608	1.00	0.00
ATOM	121	3HG2	THRM	7	-0.992	-3.975	-1.645	1.00	0.00
ATOM	122	C	THRM	7	-2.695	-3.001	1.652	1.00	0.00
ATOM	123	O	THRM	7	-3.548	-3.222	2.510	1.00	0.00
ATOM	124	N	VAL	8	-2.067	-1.844	1.498	1.00	0.00
ATOM	125	H	VAL	8	-1.374	-1.672	0.798	1.00	0.00
ATOM	126	CA	VAL	8	-2.356	-0.715	2.364	1.00	0.00
ATOM	127	HA	VAL	8	-3.361	-0.855	2.764	1.00	0.00
ATOM	128	CB	VAL	8	-1.378	-0.692	3.540	1.00	0.00
ATOM	129	HB	VAL	8	-1.165	0.349	3.779	1.00	0.00
ATOM	130	QG1	VAL	8	-2.142	-1.497	5.074	1.00	0.00
ATOM	131	QG2	VAL	8	0.257	-1.529	3.077	1.00	0.00
ATOM	132	CG1	VAL	8	-1.995	-1.343	4.779	1.00	0.00
ATOM	133	1HG1	VAL	8	-2.965	-1.769	4.522	1.00	0.00
ATOM	134	2HG1	VAL	8	-1.336	-2.132	5.142	1.00	0.00
ATOM	135	3HG1	VAL	8	-2.123	-0.591	5.559	1.00	0.00
ATOM	136	CG2	VAL	8	-0.057	-1.368	3.167	1.00	0.00
ATOM	137	1HG2	VAL	8	-0.213	-2.443	3.069	1.00	0.00
ATOM	138	2HG2	VAL	8	0.302	-0.966	2.218	1.00	0.00
ATOM	139	3HG2	VAL	8	0.682	-1.177	3.944	1.00	0.00
ATOM	140	QQG	VAL	8	-0.942	-1.513	4.076	1.00	0.00
ATOM	141	C	VAL	8	-2.331	0.574	1.540	1.00	0.00
ATOM	142	O	VAL	8	-1.949	0.615	0.365	1.00	0.00

ATOM	143	N	THRM	9	-2.748	1.652	2.179	1.00	0.00
ATOM	144	QB	THRM	9	-3.279	1.403	3.926	1.00	0.00
ATOM	145	CN	THRM	9	-3.175	1.453	3.581	1.00	0.00
ATOM	146	1HNB	THRM	9	-3.062	0.402	3.849	1.00	0.00
ATOM	147	2HNB	THRM	9	-2.557	2.063	4.240	1.00	0.00
ATOM	148	3HNB	THRM	9	-4.219	1.745	3.690	1.00	0.00
ATOM	149	CA	THRM	9	-2.787	2.964	1.537	1.00	0.00
ATOM	150	HA	THRM	9	-2.507	2.841	0.475	1.00	0.00
ATOM	151	CB	THRM	9	-4.230	3.569	1.610	1.00	0.00
ATOM	152	HB	THRM	9	-4.225	4.549	1.088	1.00	0.00
ATOM	153	QG2	THRM	9	-5.673	2.477	0.858	1.00	0.00
ATOM	154	OG1	THRM	9	-4.614	3.779	2.964	1.00	0.00
ATOM	155	1HG	THRM	9	-4.357	4.681	3.177	1.00	0.00
ATOM	156	CG2	THRM	9	-5.364	2.707	1.016	1.00	0.00
ATOM	157	1HG2	THRM	9	-5.983	2.236	1.801	1.00	0.00
ATOM	158	2HG2	THRM	9	-6.065	3.299	0.398	1.00	0.00
ATOM	159	3HG2	THRM	9	-4.972	1.896	0.376	1.00	0.00
ATOM	160	C	THRM	9	-1.782	3.902	2.163	1.00	0.00
ATOM	161	O	THRM	9	-2.123	4.860	2.828	1.00	0.00
ATOM	162	N	VALM	10	-0.512	3.618	1.945	1.00	0.00
ATOM	163	QB	VALM	10	-0.183	2.126	0.913	1.00	0.00
ATOM	164	CN	VALM	10	-0.248	2.420	1.117	1.00	0.00
ATOM	165	1HNB	VALM	10	0.802	2.406	0.822	1.00	0.00
ATOM	166	2HNB	VALM	10	-0.475	1.523	1.691	1.00	0.00
ATOM	167	3HNB	VALM	10	-0.874	2.449	0.225	1.00	0.00
ATOM	168	CA	VALM	10	0.567	4.438	2.487	1.00	0.00
ATOM	169	HA	VALM	10	0.230	5.490	2.528	1.00	0.00
ATOM	170	CB	VALM	10	0.932	3.948	3.945	1.00	0.00
ATOM	171	HB	VALM	10	1.870	3.360	3.868	1.00	0.00
ATOM	172	QG1	VALM	10	1.275	5.357	5.287	1.00	0.00
ATOM	173	QG2	VALM	10	-0.423	2.777	4.744	1.00	0.00
ATOM	174	CG1	VALM	10	1.194	5.059	4.999	1.00	0.00
ATOM	175	1HG1	VALM	10	0.285	5.646	5.231	1.00	0.00
ATOM	176	2HG1	VALM	10	1.570	4.649	5.956	1.00	0.00
ATOM	177	3HG1	VALM	10	1.970	5.777	4.674	1.00	0.00
ATOM	178	CG2	VALM	10	-0.135	3.024	4.581	1.00	0.00
ATOM	179	1HG2	VALM	10	0.061	2.834	5.653	1.00	0.00
ATOM	180	2HG2	VALM	10	-1.150	3.455	4.506	1.00	0.00
ATOM	181	3HG2	VALM	10	-0.182	2.041	4.075	1.00	0.00
ATOM	182	QQG	VALM	10	0.426	4.067	5.016	1.00	0.00
ATOM	183	C	VALM	10	1.781	4.398	1.589	1.00	0.00
ATOM	184	O	VALM	10	2.809	3.786	1.903	1.00	0.00
ATOM	185	N	ILEM	11	1.678	5.055	0.448	1.00	0.00
ATOM	186	QB	ILEM	11	0.071	5.908	0.149	1.00	0.00
ATOM	187	CN	ILEM	11	0.389	5.739	0.208	1.00	0.00
ATOM	188	1HNB	ILEM	11	-0.277	5.570	1.055	1.00	0.00
ATOM	189	2HNB	ILEM	11	0.560	6.809	0.090	1.00	0.00
ATOM	190	3HNB	ILEM	11	-0.070	5.344	-0.698	1.00	0.00
ATOM	191	CA	ILEM	11	2.771	5.103	-0.518	1.00	0.00
ATOM	192	HA	ILEM	11	2.418	5.677	-1.394	1.00	0.00
ATOM	193	CB	ILEM	11	4.038	5.839	0.082	1.00	0.00
ATOM	194	HB	ILEM	11	4.879	5.115	0.030	1.00	0.00
ATOM	195	QG2	ILEM	11	4.568	7.437	-0.969	1.00	0.00
ATOM	196	CG2	ILEM	11	4.450	7.099	-0.740	1.00	0.00
ATOM	197	1HG2	ILEM	11	5.445	6.991	-1.207	1.00	0.00
ATOM	198	2HG2	ILEM	11	3.773	7.309	-1.586	1.00	0.00
ATOM	199	3HG2	ILEM	11	4.486	8.011	-0.114	1.00	0.00
ATOM	200	CG1	ILEM	11	3.899	6.260	1.580	1.00	0.00
ATOM	201	2HG1	ILEM	11	4.769	6.877	1.872	1.00	0.00

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ATOM	202	QG1	ILEM	11	4.769	6.877	1.872	1.00	0.00
ATOM	203	QD1	ILEM	11	2.322	7.323	2.027	1.00	0.00
ATOM	204	CD1	ILEM	11	2.650	7.094	1.932	1.00	0.00
ATOM	205	1HD1	ILEM	11	2.923	7.992	2.517	1.00	0.00
ATOM	206	2HD1	ILEM	11	2.123	7.445	1.024	1.00	0.00
ATOM	207	3HD1	ILEM	11	1.922	6.530	2.541	1.00	0.00
ATOM	208	C	ILEM	11	3.110	3.721	-1.021	1.00	0.00
ATOM	209	O	ILEM	11	2.808	2.698	-0.387	1.00	0.00
ATOM	210	N	PIPO	12	3.748	3.665	-2.175	1.00	0.00
ATOM	211	CE	PIPO	12	4.142	2.414	-2.788	1.00	0.00
ATOM	212	CA	PIPO	12	4.123	4.857	-2.920	1.00	0.00
ATOM	213	HA	PIPO	12	4.622	5.588	-2.283	1.00	0.00
ATOM	214	CB	PIPO	12	5.085	4.526	-4.076	1.00	0.00
ATOM	215	2HB	PIPO	12	5.343	5.442	-4.608	1.00	0.00
ATOM	216	3HB	PIPO	12	5.991	4.073	-3.676	1.00	0.00
ATOM	217	QB	PIPO	12	5.667	4.757	-4.142	1.00	0.00
ATOM	218	CG	PIPO	12	4.405	3.543	-5.046	1.00	0.00
ATOM	219	2HG	PIPO	12	5.086	3.308	-5.863	1.00	0.00
ATOM	220	3HG	PIPO	12	3.498	3.996	-5.447	1.00	0.00
ATOM	221	QG	PIPO	12	4.292	3.652	-5.655	1.00	0.00
ATOM	222	CD	PIPO	12	4.010	2.527	-4.318	1.00	0.00
ATOM	223	2HD	PIPO	12	4.306	1.584	-4.778	1.00	0.00
ATOM	224	3HD	PIPO	12	2.975	2.748	-4.578	1.00	0.00
ATOM	225	QD	PIPO	12	3.640	2.166	-4.678	1.00	0.00
ATOM	226	1HE	PIPO	12	5.176	2.192	-2.529	1.00	0.00
ATOM	227	2HE	PIPO	12	3.497	1.614	-2.426	1.00	0.00
ATOM	228	QE	PIPO	12	4.336	1.903	-2.477	1.00	0.00
ATOM	229	C	PIPO	12	2.895	5.551	-3.535	1.00	0.00
ATOM	230	O	PIPO	12	2.723	6.751	-3.286	1.00	0.00
ATOM	231	O1'	PHEO	13	2.069	4.871	-4.307	1.00	0.00
ATOM	232	CA	PHEO	13	0.661	5.232	-4.442	1.00	0.00
ATOM	233	HA	PHEO	13	0.561	6.134	-5.075	1.00	0.00
ATOM	234	CB	PHEO	13	0.072	5.508	-3.025	1.00	0.00
ATOM	235	2HB	PHEO	13	0.886	5.828	-2.345	1.00	0.00
ATOM	236	QB	PHEO	13	0.886	5.828	-2.345	1.00	0.00
ATOM	237	QD	PHEO	13	-1.198	6.646	-2.959	1.00	0.00
ATOM	238	QE	PHEO	13	-3.074	8.239	-2.920	1.00	0.00
ATOM	239	QR	PHEO	13	-2.513	7.762	-2.932	1.00	0.00
ATOM	240	CG	PHEO	13	-1.060	6.543	-2.945	1.00	0.00
ATOM	241	CD1	PHEO	13	-2.257	6.211	-2.301	1.00	0.00
ATOM	242	1HD	PHEO	13	-2.377	5.236	-1.846	1.00	0.00
ATOM	243	CE1	PHEO	13	-3.320	7.106	-2.289	1.00	0.00
ATOM	244	1HE	PHEO	13	-4.251	6.827	-1.815	1.00	0.00
ATOM	245	CZ	PHEO	13	-3.189	8.348	-2.906	1.00	0.00
ATOM	246	HZ	PHEO	13	-4.019	9.040	-2.901	1.00	0.00
ATOM	247	CE2	PHEO	13	-1.997	8.691	-3.540	1.00	0.00
ATOM	248	2HE	PHEO	13	-1.897	9.652	-4.024	1.00	0.00
ATOM	249	CD2	PHEO	13	-0.934	7.792	-3.561	1.00	0.00
ATOM	250	2HD	PHEO	13	-0.020	8.056	-4.072	1.00	0.00
ATOM	251	C	PHEO	13	-0.129	4.108	-5.067	1.00	0.00
ATOM	252	O	PHEO	13	-0.175	3.936	-6.317	1.00	0.00
TER									
ENDMDL									
MODEL	13								
ATOM	1	N	VALM	1	-0.644	3.348	-4.548	1.00	0.00
ATOM	2	QB	VALM	1	-2.361	4.013	-4.632	1.00	0.00
ATOM	3	CN	VALM	1	-2.022	3.882	-4.616	1.00	0.00
ATOM	4	1HNB	VALM	1	-2.663	3.170	-5.137	1.00	0.00
ATOM	5	2HNB	VALM	1	-2.401	4.039	-3.606	1.00	0.00

ATOM	6	3HNB	VALM	1	-2.019	4.830	-5.154	1.00	0.00
ATOM	7	CA	VALM	1	-0.374	1.920	-4.401	1.00	0.00
ATOM	8	HA	VALM	1	-1.318	1.403	-4.152	1.00	0.00
ATOM	9	CB	VALM	1	0.198	1.340	-5.756	1.00	0.00
ATOM	10	HB	VALM	1	1.048	1.990	-6.057	1.00	0.00
ATOM	11	QG1	VALM	1	0.909	-0.502	-5.689	1.00	0.00
ATOM	12	QG2	VALM	1	-1.094	1.361	-7.232	1.00	0.00
ATOM	13	CG1	VALM	1	0.750	-0.111	-5.706	1.00	0.00
ATOM	14	1HG1	VALM	1	0.015	-0.856	-6.066	1.00	0.00
ATOM	15	2HG1	VALM	1	1.665	-0.234	-6.317	1.00	0.00
ATOM	16	3HG1	VALM	1	1.047	-0.416	-4.685	1.00	0.00
ATOM	17	CG2	VALM	1	-0.820	1.351	-6.922	1.00	0.00
ATOM	18	1HG2	VALM	1	-0.820	0.400	-7.487	1.00	0.00
ATOM	19	2HG2	VALM	1	-1.851	1.518	-6.565	1.00	0.00
ATOM	20	3HG2	VALM	1	-0.610	2.163	-7.644	1.00	0.00
ATOM	21	QQG	VALM	1	-0.092	0.429	-6.460	1.00	0.00
ATOM	22	C	VALM	1	0.583	1.665	-3.261	1.00	0.00
ATOM	23	O	VALM	1	1.569	2.389	-3.124	1.00	0.00
ATOM	24	N	PRO	2	0.275	0.621	-2.447	1.00	0.00
ATOM	25	CD	PRO	2	-0.883	-0.258	-2.579	1.00	0.00
ATOM	26	CA	PRO	2	1.121	0.279	-1.316	1.00	0.00
ATOM	27	HA	PRO	2	1.417	1.107	-0.840	1.00	0.00
ATOM	28	CB	PRO	2	0.255	-0.600	-0.428	1.00	0.00
ATOM	29	2HB	PRO	2	-0.131	-0.037	0.422	1.00	0.00
ATOM	30	QB	PRO	2	-0.131	-0.037	0.422	1.00	0.00
ATOM	31	CG	PRO	2	-0.877	-1.097	-1.312	1.00	0.00
ATOM	32	2HG	PRO	2	-1.832	-1.013	-0.793	1.00	0.00
ATOM	33	QG	PRO	2	-1.832	-1.013	-0.793	1.00	0.00
ATOM	34	2HD	PRO	2	-1.807	0.315	-2.670	1.00	0.00
ATOM	35	QD	PRO	2	-1.807	0.315	-2.670	1.00	0.00
ATOM	36	C	PRO	2	2.402	-0.418	-1.781	1.00	0.00
ATOM	37	O	PRO	2	2.450	-0.964	-2.881	1.00	0.00
ATOM	38	N	ILE	3	3.407	-0.375	-0.918	1.00	0.00
ATOM	39	H	ILE	3	3.358	0.072	-0.024	1.00	0.00
ATOM	40	CA	ILE	3	4.684	-0.995	-1.226	1.00	0.00
ATOM	41	HA	ILE	3	4.695	-1.206	-2.295	1.00	0.00
ATOM	42	CB	ILE	3	5.833	-0.024	-0.945	1.00	0.00
ATOM	43	HB	ILE	3	6.529	-0.507	-0.259	1.00	0.00
ATOM	44	QG2	ILE	3	6.791	0.370	-2.530	1.00	0.00
ATOM	45	CG2	ILE	3	6.607	0.294	-2.225	1.00	0.00
ATOM	46	1HG2	ILE	3	7.062	1.280	-2.139	1.00	0.00
ATOM	47	2HG2	ILE	3	7.386	-0.453	-2.374	1.00	0.00
ATOM	48	3HG2	ILE	3	5.925	0.282	-3.076	1.00	0.00
ATOM	49	CG1	ILE	3	5.324	1.242	-0.253	1.00	0.00
ATOM	50	2HG1	ILE	3	4.371	1.542	-0.690	1.00	0.00
ATOM	51	QG1	ILE	3	4.371	1.542	-0.690	1.00	0.00
ATOM	52	QD1	ILE	3	5.112	0.961	1.607	1.00	0.00
ATOM	53	CD1	ILE	3	5.152	1.015	1.250	1.00	0.00
ATOM	54	1HD1	ILE	3	5.652	1.814	1.797	1.00	0.00
ATOM	55	2HD1	ILE	3	4.091	1.012	1.499	1.00	0.00
ATOM	56	3HD1	ILE	3	5.592	0.056	1.525	1.00	0.00
ATOM	57	C	ILE	3	4.799	-2.320	-0.468	1.00	0.00
ATOM	58	O	ILE	3	5.292	-3.342	-0.967	1.00	0.00
ATOM	59	N	PIP	4	4.333	-2.298	0.766	1.00	0.00
ATOM	60	CE	PIP	4	3.756	-1.111	1.359	1.00	0.00
ATOM	61	CA	PIP	4	4.376	-3.462	1.638	1.00	0.00
ATOM	62	HA	PIP	4	5.364	-3.919	1.649	1.00	0.00
ATOM	63	CB	PIP	4	4.027	-3.094	3.093	1.00	0.00
ATOM	64	2HB	PIP	4	4.070	-3.989	3.713	1.00	0.00

ATOM	65	3HB	PIP	4	4.742	-2.361	3.464	1.00	0.00
ATOM	66	QB	PIP	4	4.406	-3.175	3.589	1.00	0.00
ATOM	67	CG	PIP	4	2.607	-2.500	3.146	1.00	0.00
ATOM	68	2HG	PIP	4	2.360	-2.240	4.175	1.00	0.00
ATOM	69	3HG	PIP	4	1.891	-3.234	2.775	1.00	0.00
ATOM	70	QG	PIP	4	2.126	-2.737	3.475	1.00	0.00
ATOM	71	CD	PIP	4	2.592	-1.513	2.284	1.00	0.00
ATOM	72	2HD	PIP	4	2.158	-0.619	2.732	1.00	0.00
ATOM	73	3HD	PIP	4	1.831	-2.035	1.705	1.00	0.00
ATOM	74	QD	PIP	4	1.995	-1.327	2.218	1.00	0.00
ATOM	75	1HE	PIP	4	4.516	-0.589	1.939	1.00	0.00
ATOM	76	2HE	PIP	4	3.385	-0.455	0.573	1.00	0.00
ATOM	77	QE	PIP	4	3.951	-0.522	1.256	1.00	0.00
ATOM	78	C	PIP	4	3.379	-4.544	1.190	1.00	0.00
ATOM	79	O	PIP	4	2.715	-4.270	0.191	1.00	0.00
ATOM	80	N	ALA	5	3.285	-5.680	1.864	1.00	0.00
ATOM	81	H	ALA	5	3.828	-5.895	2.676	1.00	0.00
ATOM	82	CA	ALA	5	2.357	-6.719	1.454	1.00	0.00
ATOM	83	HA	ALA	5	2.776	-7.211	0.576	1.00	0.00
ATOM	84	QB	ALA	5	2.182	-7.996	2.842	1.00	0.00
ATOM	85	CB	ALA	5	2.216	-7.750	2.575	1.00	0.00
ATOM	86	1HB	ALA	5	1.209	-8.169	2.560	1.00	0.00
ATOM	87	2HB	ALA	5	2.943	-8.549	2.429	1.00	0.00
ATOM	88	3HB	ALA	5	2.395	-7.269	3.536	1.00	0.00
ATOM	89	C	ALA	5	1.018	-6.082	1.076	1.00	0.00
ATOM	90	O	ALA	5	0.667	-5.018	1.585	1.00	0.00
ATOM	91	N	PRO	6	0.288	-6.776	0.163	1.00	0.00
ATOM	92	CD	PRO	6	0.672	-8.039	-0.462	1.00	0.00
ATOM	93	CA	PRO	6	-1.004	-6.290	-0.289	1.00	0.00
ATOM	94	HA	PRO	6	-0.968	-5.302	-0.445	1.00	0.00
ATOM	95	CB	PRO	6	-1.286	-7.053	-1.572	1.00	0.00
ATOM	96	2HB	PRO	6	-1.089	-6.434	-2.447	1.00	0.00
ATOM	97	QB	PRO	6	-1.089	-6.434	-2.447	1.00	0.00
ATOM	98	CG	PRO	6	-0.369	-8.266	-1.546	1.00	0.00
ATOM	99	2HG	PRO	6	0.111	-8.403	-2.515	1.00	0.00
ATOM	100	QG	PRO	6	0.111	-8.403	-2.515	1.00	0.00
ATOM	101	2HD	PRO	6	1.676	-7.983	-0.883	1.00	0.00
ATOM	102	QD	PRO	6	1.676	-7.983	-0.883	1.00	0.00
ATOM	103	C	PRO	6	-2.076	-6.504	0.782	1.00	0.00
ATOM	104	O	PRO	6	-2.369	-7.620	1.228	1.00	0.00
ATOM	105	N	THRM	7	-2.673	-5.405	1.202	1.00	0.00
ATOM	106	QB	THRM	7	-3.970	-5.631	2.493	1.00	0.00
ATOM	107	CN	THRM	7	-3.714	-5.587	2.238	1.00	0.00
ATOM	108	1HNB	THRM	7	-3.805	-6.646	2.480	1.00	0.00
ATOM	109	2HNB	THRM	7	-3.436	-5.032	3.134	1.00	0.00
ATOM	110	3HNB	THRM	7	-4.669	-5.216	1.864	1.00	0.00
ATOM	111	CA	THRM	7	-2.328	-4.087	0.675	1.00	0.00
ATOM	112	HA	THRM	7	-1.231	-4.042	0.542	1.00	0.00
ATOM	113	CB	THRM	7	-3.014	-3.852	-0.713	1.00	0.00
ATOM	114	HB	THRM	7	-3.499	-2.853	-0.698	1.00	0.00
ATOM	115	QG2	THRM	7	-1.846	-3.944	-2.285	1.00	0.00
ATOM	116	OG1	THRM	7	-4.010	-4.838	-0.948	1.00	0.00
ATOM	117	1HG	THRM	7	-4.791	-4.362	-1.250	1.00	0.00
ATOM	118	CG2	THRM	7	-2.096	-3.927	-1.951	1.00	0.00
ATOM	119	1HG2	THRM	7	-2.193	-3.035	-2.597	1.00	0.00
ATOM	120	2HG2	THRM	7	-1.024	-3.985	-1.681	1.00	0.00
ATOM	121	3HG2	THRM	7	-2.321	-4.811	-2.578	1.00	0.00
ATOM	122	C	THRM	7	-2.708	-2.998	1.650	1.00	0.00
ATOM	123	O	THRM	7	-3.559	-3.225	2.509	1.00	0.00

ATOM	124	N	VAL	8	-2.077	-1.842	1.504	1.00	0.00
ATOM	125	H	VAL	8	-1.387	-1.666	0.803	1.00	0.00
ATOM	126	CA	VAL	8	-2.360	-0.720	2.382	1.00	0.00
ATOM	127	HA	VAL	8	-3.362	-0.862	2.787	1.00	0.00
ATOM	128	CB	VAL	8	-1.374	-0.710	3.553	1.00	0.00
ATOM	129	HB	VAL	8	-1.154	0.328	3.796	1.00	0.00
ATOM	130	QG1	VAL	8	-2.134	-1.520	5.086	1.00	0.00
ATOM	131	QG2	VAL	8	0.253	-1.554	3.076	1.00	0.00
ATOM	132	CG1	VAL	8	-1.989	-1.364	4.792	1.00	0.00
ATOM	133	1HG1	VAL	8	-1.297	-2.106	5.192	1.00	0.00
ATOM	134	2HG1	VAL	8	-2.181	-0.602	5.547	1.00	0.00
ATOM	135	3HG1	VAL	8	-2.925	-1.851	4.520	1.00	0.00
ATOM	136	CG2	VAL	8	-0.060	-1.393	3.167	1.00	0.00
ATOM	137	1HG2	VAL	8	-0.217	-2.468	3.092	1.00	0.00
ATOM	138	2HG2	VAL	8	0.282	-1.006	2.206	1.00	0.00
ATOM	139	3HG2	VAL	8	0.693	-1.187	3.929	1.00	0.00
ATOM	140	QQG	VAL	8	-0.941	-1.537	4.081	1.00	0.00
ATOM	141	C	VAL	8	-2.336	0.577	1.570	1.00	0.00
ATOM	142	O	VAL	8	-1.966	0.626	0.391	1.00	0.00
ATOM	143	N	THRM	9	-2.741	1.651	2.222	1.00	0.00
ATOM	144	QB	THRM	9	-3.255	1.388	3.973	1.00	0.00
ATOM	145	CN	THRM	9	-3.153	1.440	3.628	1.00	0.00
ATOM	146	1HNB	THRM	9	-3.043	0.386	3.884	1.00	0.00
ATOM	147	2HNB	THRM	9	-2.526	2.041	4.285	1.00	0.00
ATOM	148	3HNB	THRM	9	-4.195	1.736	3.749	1.00	0.00
ATOM	149	CA	THRM	9	-2.780	2.968	1.594	1.00	0.00
ATOM	150	HA	THRM	9	-2.516	2.853	0.527	1.00	0.00
ATOM	151	CB	THRM	9	-4.217	3.582	1.693	1.00	0.00
ATOM	152	HB	THRM	9	-4.341	4.020	2.707	1.00	0.00
ATOM	153	QG2	THRM	9	-4.670	4.954	0.367	1.00	0.00
ATOM	154	OG1	THRM	9	-5.204	2.575	1.510	1.00	0.00
ATOM	155	1HG	THRM	9	-4.825	1.764	1.863	1.00	0.00
ATOM	156	CG2	THRM	9	-4.573	4.665	0.651	1.00	0.00
ATOM	157	1HG2	THRM	9	-4.072	4.489	-0.318	1.00	0.00
ATOM	158	2HG2	THRM	9	-5.656	4.697	0.427	1.00	0.00
ATOM	159	3HG2	THRM	9	-4.282	5.675	0.993	1.00	0.00
ATOM	160	C	THRM	9	-1.760	3.893	2.213	1.00	0.00
ATOM	161	O	THRM	9	-2.085	4.854	2.881	1.00	0.00
ATOM	162	N	VALM	10	-0.495	3.595	1.985	1.00	0.00
ATOM	163	QB	VALM	10	-0.191	2.100	0.950	1.00	0.00
ATOM	164	CN	VALM	10	-0.250	2.396	1.153	1.00	0.00
ATOM	165	1HNB	VALM	10	-0.884	2.433	0.267	1.00	0.00
ATOM	166	2HNB	VALM	10	0.796	2.369	0.852	1.00	0.00
ATOM	167	3HNB	VALM	10	-0.485	1.500	1.730	1.00	0.00
ATOM	168	CA	VALM	10	0.599	4.401	2.521	1.00	0.00
ATOM	169	HA	VALM	10	0.263	5.452	2.594	1.00	0.00
ATOM	170	CB	VALM	10	0.996	3.879	3.957	1.00	0.00
ATOM	171	HB	VALM	10	1.963	3.342	3.855	1.00	0.00
ATOM	172	QG1	VALM	10	1.273	5.250	5.353	1.00	0.00
ATOM	173	QG2	VALM	10	-0.285	2.605	4.725	1.00	0.00
ATOM	174	CG1	VALM	10	1.207	4.962	5.052	1.00	0.00
ATOM	175	1HG1	VALM	10	0.501	5.808	4.951	1.00	0.00
ATOM	176	2HG1	VALM	10	1.088	4.555	6.074	1.00	0.00
ATOM	177	3HG1	VALM	10	2.229	5.387	5.033	1.00	0.00
ATOM	178	CG2	VALM	10	-0.018	2.879	4.564	1.00	0.00
ATOM	179	1HG2	VALM	10	-0.879	3.388	5.036	1.00	0.00
ATOM	180	2HG2	VALM	10	-0.424	2.190	3.801	1.00	0.00
ATOM	181	3HG2	VALM	10	0.449	2.238	5.337	1.00	0.00
ATOM	182	QQG	VALM	10	0.494	3.928	5.039	1.00	0.00

ATOM	183	C	VALM	10	1.790	4.382	1.593	1.00	0.00
ATOM	184	O	VALM	10	2.826	3.764	1.869	1.00	0.00
ATOM	185	N	ILEM	11	1.661	5.062	0.470	1.00	0.00
ATOM	186	QB	ILEM	11	0.047	5.921	0.227	1.00	0.00
ATOM	187	CN	ILEM	11	0.366	5.751	0.275	1.00	0.00
ATOM	188	1HNB	ILEM	11	-0.280	5.565	1.133	1.00	0.00
ATOM	189	2HNB	ILEM	11	0.535	6.824	0.176	1.00	0.00
ATOM	190	3HNB	ILEM	11	-0.115	5.376	-0.628	1.00	0.00
ATOM	191	CA	ILEM	11	2.731	5.132	-0.521	1.00	0.00
ATOM	192	HA	ILEM	11	2.345	5.693	-1.391	1.00	0.00
ATOM	193	CB	ILEM	11	3.992	5.901	0.048	1.00	0.00
ATOM	194	HB	ILEM	11	4.863	5.225	-0.088	1.00	0.00
ATOM	195	QG2	ILEM	11	4.383	7.574	-0.945	1.00	0.00
ATOM	196	CG2	ILEM	11	4.295	7.220	-0.728	1.00	0.00
ATOM	197	1HG2	ILEM	11	5.247	7.171	-1.287	1.00	0.00
ATOM	198	2HG2	ILEM	11	3.539	7.458	-1.495	1.00	0.00
ATOM	199	3HG2	ILEM	11	4.364	8.094	-0.052	1.00	0.00
ATOM	200	CG1	ILEM	11	3.918	6.239	1.571	1.00	0.00
ATOM	201	2HG1	ILEM	11	4.795	6.849	1.858	1.00	0.00
ATOM	202	QG1	ILEM	11	4.795	6.849	1.858	1.00	0.00
ATOM	203	QD1	ILEM	11	2.349	7.249	2.149	1.00	0.00
ATOM	204	CD1	ILEM	11	2.680	7.039	2.024	1.00	0.00
ATOM	205	1HD1	ILEM	11	2.019	6.427	2.663	1.00	0.00
ATOM	206	2HD1	ILEM	11	2.963	7.934	2.612	1.00	0.00
ATOM	207	3HD1	ILEM	11	2.066	7.385	1.173	1.00	0.00
ATOM	208	C	ILEM	11	3.092	3.755	-1.024	1.00	0.00
ATOM	209	O	ILEM	11	2.794	2.727	-0.398	1.00	0.00
ATOM	210	N	PIPO	12	3.743	3.711	-2.172	1.00	0.00
ATOM	211	CE	PIPO	12	4.158	2.468	-2.784	1.00	0.00
ATOM	212	CA	PIPO	12	4.112	4.912	-2.908	1.00	0.00
ATOM	213	HA	PIPO	12	4.596	5.645	-2.263	1.00	0.00
ATOM	214	CB	PIPO	12	5.092	4.596	-4.053	1.00	0.00
ATOM	215	2HB	PIPO	12	5.345	5.517	-4.579	1.00	0.00
ATOM	216	3HB	PIPO	12	5.999	4.152	-3.644	1.00	0.00
ATOM	217	QB	PIPO	12	5.672	4.834	-4.112	1.00	0.00
ATOM	218	CG	PIPO	12	4.435	3.608	-5.034	1.00	0.00
ATOM	219	2HG	PIPO	12	5.128	3.385	-5.846	1.00	0.00
ATOM	220	3HG	PIPO	12	3.527	4.053	-5.445	1.00	0.00
ATOM	221	QG	PIPO	12	4.327	3.719	-5.645	1.00	0.00
ATOM	222	CD	PIPO	12	4.043	2.585	-4.315	1.00	0.00
ATOM	223	2HD	PIPO	12	4.355	1.649	-4.776	1.00	0.00
ATOM	224	3HD	PIPO	12	3.008	2.796	-4.587	1.00	0.00
ATOM	225	QD	PIPO	12	3.682	2.222	-4.681	1.00	0.00
ATOM	226	1HE	PIPO	12	5.193	2.257	-2.513	1.00	0.00
ATOM	227	2HE	PIPO	12	3.519	1.659	-2.432	1.00	0.00
ATOM	228	QE	PIPO	12	4.356	1.958	-2.473	1.00	0.00
ATOM	229	C	PIPO	12	2.884	5.594	-3.533	1.00	0.00
ATOM	230	O	PIPO	12	2.678	6.781	-3.259	1.00	0.00
ATOM	231	O1'	PHEO	13	2.093	4.915	-4.343	1.00	0.00
ATOM	232	CA	PHEO	13	0.658	5.177	-4.421	1.00	0.00
ATOM	233	HA	PHEO	13	0.471	6.087	-5.020	1.00	0.00
ATOM	234	CB	PHEO	13	0.100	5.363	-2.978	1.00	0.00
ATOM	235	2HB	PHEO	13	0.885	5.101	-2.243	1.00	0.00
ATOM	236	QB	PHEO	13	0.885	5.101	-2.243	1.00	0.00
ATOM	237	QD	PHEO	13	-0.523	6.910	-2.611	1.00	0.00
ATOM	238	QE	PHEO	13	-1.491	9.121	-2.127	1.00	0.00
ATOM	239	QR	PHEO	13	-1.201	8.459	-2.272	1.00	0.00
ATOM	240	CG	PHEO	13	-0.442	6.758	-2.630	1.00	0.00
ATOM	241	CD1	PHEO	13	-1.506	6.883	-1.729	1.00	0.00

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ATOM	242	1HD	PHEO	13	-1.932	6.002	-1.267	1.00	0.00
ATOM	243	CE1	PHEO	13	-2.060	8.130	-1.465	1.00	0.00
ATOM	244	1HE	PHEO	13	-2.901	8.211	-0.791	1.00	0.00
ATOM	245	CZ	PHEO	13	-1.544	9.265	-2.086	1.00	0.00
ATOM	246	HZ	PHEO	13	-1.979	10.232	-1.884	1.00	0.00
ATOM	247	CE2	PHEO	13	-0.477	9.151	-2.975	1.00	0.00
ATOM	248	2HE	PHEO	13	-0.081	10.031	-3.462	1.00	0.00
ATOM	249	CD2	PHEO	13	0.073	7.901	-3.248	1.00	0.00
ATOM	250	2HD	PHEO	13	0.886	7.817	-3.955	1.00	0.00
ATOM	251	C	PHEO	13	-0.070	4.017	-5.057	1.00	0.00
ATOM	252	O	PHEO	13	-0.096	3.849	-6.309	1.00	0.00
TER									
ENDMDL									
MODEL 14									
ATOM	1	N	VALM	1	0.040	3.274	-5.003	1.00	0.00
ATOM	2	QB	VALM	1	1.054	3.291	-6.543	1.00	0.00
ATOM	3	CN	VALM	1	0.854	3.288	-6.239	1.00	0.00
ATOM	4	1HNB	VALM	1	0.733	2.341	-6.765	1.00	0.00
ATOM	5	2HNB	VALM	1	0.526	4.105	-6.883	1.00	0.00
ATOM	6	3HNB	VALM	1	1.904	3.428	-5.982	1.00	0.00
ATOM	7	CA	VALM	1	-0.326	2.029	-4.333	1.00	0.00
ATOM	8	HA	VALM	1	-1.332	2.146	-3.891	1.00	0.00
ATOM	9	CB	VALM	1	-0.351	0.845	-5.379	1.00	0.00
ATOM	10	HB	VALM	1	-0.231	1.294	-6.387	1.00	0.00
ATOM	11	QG1	VALM	1	1.069	-0.519	-5.205	1.00	0.00
ATOM	12	QG2	VALM	1	-2.029	-0.171	-5.387	1.00	0.00
ATOM	13	CG1	VALM	1	0.770	-0.223	-5.237	1.00	0.00
ATOM	14	1HG1	VALM	1	1.563	0.088	-4.531	1.00	0.00
ATOM	15	2HG1	VALM	1	0.380	-1.196	-4.882	1.00	0.00
ATOM	16	3HG1	VALM	1	1.262	-0.449	-6.202	1.00	0.00
ATOM	17	CG2	VALM	1	-1.676	0.046	-5.391	1.00	0.00
ATOM	18	1HG2	VALM	1	-2.258	0.213	-6.316	1.00	0.00
ATOM	19	2HG2	VALM	1	-1.501	-1.043	-5.308	1.00	0.00
ATOM	20	3HG2	VALM	1	-2.327	0.316	-4.538	1.00	0.00
ATOM	21	QQG	VALM	1	-0.480	-0.345	-5.296	1.00	0.00
ATOM	22	C	VALM	1	0.623	1.726	-3.198	1.00	0.00
ATOM	23	O	VALM	1	1.624	2.424	-3.044	1.00	0.00
ATOM	24	N	PRO	2	0.288	0.672	-2.409	1.00	0.00
ATOM	25	CD	PRO	2	-0.889	-0.177	-2.562	1.00	0.00
ATOM	26	CA	PRO	2	1.124	0.283	-1.285	1.00	0.00
ATOM	27	HA	PRO	2	1.439	1.094	-0.791	1.00	0.00
ATOM	28	CB	PRO	2	0.238	-0.596	-0.419	1.00	0.00
ATOM	29	2HB	PRO	2	-0.137	-0.044	0.443	1.00	0.00
ATOM	30	QB	PRO	2	-0.137	-0.044	0.443	1.00	0.00
ATOM	31	CG	PRO	2	-0.905	-1.046	-1.316	1.00	0.00
ATOM	32	2HG	PRO	2	-1.858	-0.952	-0.795	1.00	0.00
ATOM	33	QG	PRO	2	-1.858	-0.952	-0.795	1.00	0.00
ATOM	34	2HD	PRO	2	-1.799	0.417	-2.641	1.00	0.00
ATOM	35	QD	PRO	2	-1.799	0.417	-2.641	1.00	0.00
ATOM	36	C	PRO	2	2.390	-0.432	-1.764	1.00	0.00
ATOM	37	O	PRO	2	2.407	-1.010	-2.850	1.00	0.00
ATOM	38	N	ILE	3	3.419	-0.369	-0.932	1.00	0.00
ATOM	39	H	ILE	3	3.396	0.104	-0.051	1.00	0.00
ATOM	40	CA	ILE	3	4.685	-1.003	-1.257	1.00	0.00
ATOM	41	HA	ILE	3	4.674	-1.226	-2.324	1.00	0.00
ATOM	42	CB	ILE	3	5.847	-0.039	-1.007	1.00	0.00
ATOM	43	HB	ILE	3	6.560	-0.528	-0.345	1.00	0.00
ATOM	44	QG2	ILE	3	6.760	0.354	-2.619	1.00	0.00
ATOM	45	CG2	ILE	3	6.585	0.279	-2.310	1.00	0.00



ATOM	46	1HG2	ILE	3	7.461	-0.363	-2.395	1.00	0.00
ATOM	47	2HG2	ILE	3	5.920	0.103	-3.157	1.00	0.00
ATOM	48	3HG2	ILE	3	6.897	1.323	-2.305	1.00	0.00
ATOM	49	CG1	ILE	3	5.365	1.229	-0.299	1.00	0.00
ATOM	50	2HG1	ILE	3	4.414	1.549	-0.725	1.00	0.00
ATOM	51	QG1	ILE	3	4.414	1.549	-0.725	1.00	0.00
ATOM	52	QD1	ILE	3	5.162	0.931	1.560	1.00	0.00
ATOM	53	CD1	ILE	3	5.201	0.987	1.204	1.00	0.00
ATOM	54	1HD1	ILE	3	5.614	0.013	1.463	1.00	0.00
ATOM	55	2HD1	ILE	3	5.729	1.765	1.756	1.00	0.00
ATOM	56	3HD1	ILE	3	4.142	1.014	1.462	1.00	0.00
ATOM	57	C	ILE	3	4.803	-2.319	-0.488	1.00	0.00
ATOM	58	O	ILE	3	5.306	-3.343	-0.974	1.00	0.00
ATOM	59	N	PIP	4	4.327	-2.291	0.743	1.00	0.00
ATOM	60	CE	PIP	4	3.738	-1.104	1.323	1.00	0.00
ATOM	61	CA	PIP	4	4.371	-3.448	1.625	1.00	0.00
ATOM	62	HA	PIP	4	5.363	-3.899	1.647	1.00	0.00
ATOM	63	CB	PIP	4	4.009	-3.072	3.073	1.00	0.00
ATOM	64	2HB	PIP	4	4.053	-3.961	3.702	1.00	0.00
ATOM	65	3HB	PIP	4	4.716	-2.330	3.445	1.00	0.00
ATOM	66	QB	PIP	4	4.384	-3.145	3.574	1.00	0.00
ATOM	67	CG	PIP	4	2.586	-2.486	3.112	1.00	0.00
ATOM	68	2HG	PIP	4	2.328	-2.219	4.137	1.00	0.00
ATOM	69	3HG	PIP	4	1.877	-3.227	2.741	1.00	0.00
ATOM	70	QG	PIP	4	2.102	-2.723	3.439	1.00	0.00
ATOM	71	CD	PIP	4	2.570	-1.506	2.242	1.00	0.00
ATOM	72	2HD	PIP	4	2.126	-0.611	2.678	1.00	0.00
ATOM	73	3HD	PIP	4	1.816	-2.038	1.661	1.00	0.00
ATOM	74	QD	PIP	4	1.971	-1.325	2.170	1.00	0.00
ATOM	75	1HE	PIP	4	4.491	-0.571	1.904	1.00	0.00
ATOM	76	2HE	PIP	4	3.368	-0.457	0.527	1.00	0.00
ATOM	77	QE	PIP	4	3.929	-0.514	1.216	1.00	0.00
ATOM	78	C	PIP	4	3.385	-4.540	1.178	1.00	0.00
ATOM	79	O	PIP	4	2.763	-4.299	0.145	1.00	0.00
ATOM	80	N	ALA	5	3.258	-5.651	1.889	1.00	0.00
ATOM	81	H	ALA	5	3.768	-5.838	2.728	1.00	0.00
ATOM	82	CA	ALA	5	2.340	-6.700	1.480	1.00	0.00
ATOM	83	HA	ALA	5	2.769	-7.197	0.611	1.00	0.00
ATOM	84	QB	ALA	5	2.161	-7.964	2.879	1.00	0.00
ATOM	85	CB	ALA	5	2.195	-7.721	2.611	1.00	0.00
ATOM	86	1HB	ALA	5	2.745	-7.375	3.486	1.00	0.00
ATOM	87	2HB	ALA	5	1.141	-7.836	2.865	1.00	0.00
ATOM	88	3HB	ALA	5	2.597	-8.680	2.287	1.00	0.00
ATOM	89	C	ALA	5	1.000	-6.074	1.087	1.00	0.00
ATOM	90	O	ALA	5	0.642	-5.004	1.576	1.00	0.00
ATOM	91	N	PRO	6	0.276	-6.786	0.182	1.00	0.00
ATOM	92	CD	PRO	6	0.669	-8.058	-0.420	1.00	0.00
ATOM	93	CA	PRO	6	-1.015	-6.312	-0.284	1.00	0.00
ATOM	94	HA	PRO	6	-0.982	-5.328	-0.457	1.00	0.00
ATOM	95	CB	PRO	6	-1.288	-7.099	-1.555	1.00	0.00
ATOM	96	2HB	PRO	6	-1.089	-6.493	-2.440	1.00	0.00
ATOM	97	QB	PRO	6	-1.089	-6.493	-2.440	1.00	0.00
ATOM	98	CG	PRO	6	-0.367	-8.307	-1.504	1.00	0.00
ATOM	99	2HG	PRO	6	0.118	-8.459	-2.468	1.00	0.00
ATOM	100	QG	PRO	6	0.118	-8.459	-2.468	1.00	0.00
ATOM	101	2HD	PRO	6	1.674	-8.005	-0.837	1.00	0.00
ATOM	102	QD	PRO	6	1.674	-8.005	-0.837	1.00	0.00
ATOM	103	C	PRO	6	-2.091	-6.512	0.785	1.00	0.00
ATOM	104	O	PRO	6	-2.398	-7.625	1.233	1.00	0.00

ATOM	105	N	THRM	7	-2.676	-5.405	1.202	1.00	0.00
ATOM	106	QB	THRM	7	-3.977	-5.615	2.492	1.00	0.00
ATOM	107	CN	THRM	7	-3.721	-5.574	2.238	1.00	0.00
ATOM	108	1HNB	THRM	7	-3.825	-6.631	2.481	1.00	0.00
ATOM	109	2HNB	THRM	7	-3.437	-5.021	3.134	1.00	0.00
ATOM	110	3HNB	THRM	7	-4.670	-5.193	1.861	1.00	0.00
ATOM	111	CA	THRM	7	-2.314	-4.092	0.675	1.00	0.00
ATOM	112	HA	THRM	7	-1.215	-4.055	0.558	1.00	0.00
ATOM	113	CB	THRM	7	-2.977	-3.860	-0.724	1.00	0.00
ATOM	114	HB	THRM	7	-3.458	-2.858	-0.721	1.00	0.00
ATOM	115	QG2	THRM	7	-1.789	-3.965	-2.279	1.00	0.00
ATOM	116	OG1	THRM	7	-3.977	-4.841	-0.969	1.00	0.00
ATOM	117	1HG	THRM	7	-4.499	-4.511	-1.707	1.00	0.00
ATOM	118	CG2	THRM	7	-2.042	-3.946	-1.948	1.00	0.00
ATOM	119	1HG2	THRM	7	-2.166	-3.084	-2.629	1.00	0.00
ATOM	120	2HG2	THRM	7	-0.973	-3.951	-1.665	1.00	0.00
ATOM	121	3HG2	THRM	7	-2.226	-4.861	-2.542	1.00	0.00
ATOM	122	C	THRM	7	-2.701	-2.997	1.639	1.00	0.00
ATOM	123	O	THRM	7	-3.563	-3.215	2.490	1.00	0.00
ATOM	124	N	VAL	8	-2.066	-1.843	1.492	1.00	0.00
ATOM	125	H	VAL	8	-1.367	-1.675	0.798	1.00	0.00
ATOM	126	CA	VAL	8	-2.354	-0.714	2.361	1.00	0.00
ATOM	127	HA	VAL	8	-3.366	-0.845	2.744	1.00	0.00
ATOM	128	CB	VAL	8	-1.393	-0.712	3.552	1.00	0.00
ATOM	129	HB	VAL	8	-1.175	0.326	3.804	1.00	0.00
ATOM	130	QG1	VAL	8	-2.188	-1.525	5.066	1.00	0.00
ATOM	131	QG2	VAL	8	0.241	-1.558	3.106	1.00	0.00
ATOM	132	CG1	VAL	8	-2.035	-1.369	4.776	1.00	0.00
ATOM	133	1HG1	VAL	8	-3.099	-1.520	4.590	1.00	0.00
ATOM	134	2HG1	VAL	8	-1.559	-2.331	4.964	1.00	0.00
ATOM	135	3HG1	VAL	8	-1.905	-0.723	5.643	1.00	0.00
ATOM	136	CG2	VAL	8	-0.073	-1.396	3.192	1.00	0.00
ATOM	137	1HG2	VAL	8	0.246	-1.071	2.201	1.00	0.00
ATOM	138	2HG2	VAL	8	0.687	-1.126	3.925	1.00	0.00
ATOM	139	3HG2	VAL	8	-0.211	-2.477	3.193	1.00	0.00
ATOM	140	QQG	VAL	8	-0.973	-1.541	4.086	1.00	0.00
ATOM	141	C	VAL	8	-2.298	0.578	1.545	1.00	0.00
ATOM	142	O	VAL	8	-1.893	0.621	0.377	1.00	0.00
ATOM	143	N	THRM	9	-2.718	1.657	2.179	1.00	0.00
ATOM	144	QB	THRM	9	-3.287	1.404	3.915	1.00	0.00
ATOM	145	CN	THRM	9	-3.175	1.454	3.573	1.00	0.00
ATOM	146	1HNB	THRM	9	-3.078	0.400	3.837	1.00	0.00
ATOM	147	2HNB	THRM	9	-2.564	2.055	4.247	1.00	0.00
ATOM	148	3HNB	THRM	9	-4.218	1.756	3.661	1.00	0.00
ATOM	149	CA	THRM	9	-2.731	2.972	1.546	1.00	0.00
ATOM	150	HA	THRM	9	-2.421	2.854	0.491	1.00	0.00
ATOM	151	CB	THRM	9	-4.171	3.585	1.581	1.00	0.00
ATOM	152	HB	THRM	9	-4.249	4.244	2.472	1.00	0.00
ATOM	153	QG2	THRM	9	-4.718	4.612	0.003	1.00	0.00
ATOM	154	OG1	THRM	9	-5.147	2.558	1.690	1.00	0.00
ATOM	155	1HG	THRM	9	-4.954	1.929	0.988	1.00	0.00
ATOM	156	CG2	THRM	9	-4.601	4.396	0.339	1.00	0.00
ATOM	157	1HG2	THRM	9	-4.245	3.937	-0.601	1.00	0.00
ATOM	158	2HG2	THRM	9	-5.699	4.468	0.240	1.00	0.00
ATOM	159	3HG2	THRM	9	-4.208	5.431	0.369	1.00	0.00
ATOM	160	C	THRM	9	-1.739	3.900	2.205	1.00	0.00
ATOM	161	O	THRM	9	-2.093	4.844	2.883	1.00	0.00
ATOM	162	N	VALM	10	-0.465	3.625	2.001	1.00	0.00
ATOM	163	QB	VALM	10	-0.114	2.155	0.945	1.00	0.00

ATOM	164	CN	VALM	10	-0.183	2.445	1.154	1.00	0.00
ATOM	165	1HNB	VALM	10	0.870	2.442	0.873	1.00	0.00
ATOM	166	2HNB	VALM	10	-0.414	1.536	1.708	1.00	0.00
ATOM	167	3HNB	VALM	10	-0.798	2.488	0.253	1.00	0.00
ATOM	168	CA	VALM	10	0.604	4.438	2.576	1.00	0.00
ATOM	169	HA	VALM	10	0.255	5.483	2.651	1.00	0.00
ATOM	170	CB	VALM	10	0.966	3.903	4.019	1.00	0.00
ATOM	171	HB	VALM	10	1.901	3.310	3.922	1.00	0.00
ATOM	172	QG1	VALM	10	1.320	5.273	5.397	1.00	0.00
ATOM	173	QG2	VALM	10	-0.397	2.719	4.786	1.00	0.00
ATOM	174	CG1	VALM	10	1.236	4.980	5.105	1.00	0.00
ATOM	175	1HG1	VALM	10	0.328	5.234	5.684	1.00	0.00
ATOM	176	2HG1	VALM	10	2.009	4.660	5.831	1.00	0.00
ATOM	177	3HG1	VALM	10	1.623	5.924	4.677	1.00	0.00
ATOM	178	CG2	VALM	10	-0.106	2.967	4.628	1.00	0.00
ATOM	179	1HG2	VALM	10	0.239	2.487	5.563	1.00	0.00
ATOM	180	2HG2	VALM	10	-1.038	3.510	4.866	1.00	0.00
ATOM	181	3HG2	VALM	10	-0.392	2.159	3.929	1.00	0.00
ATOM	182	QQG	VALM	10	0.462	3.996	5.092	1.00	0.00
ATOM	183	C	VALM	10	1.821	4.440	1.683	1.00	0.00
ATOM	184	O	VALM	10	2.902	3.958	2.045	1.00	0.00
ATOM	185	N	ILEM	11	1.665	4.989	0.493	1.00	0.00
ATOM	186	QB	ILEM	11	-0.014	5.656	0.125	1.00	0.00
ATOM	187	CN	ILEM	11	0.317	5.524	0.198	1.00	0.00
ATOM	188	1HNB	ILEM	11	-0.335	5.363	1.056	1.00	0.00
ATOM	189	2HNB	ILEM	11	0.387	6.592	-0.008	1.00	0.00
ATOM	190	3HNB	ILEM	11	-0.096	5.013	-0.672	1.00	0.00
ATOM	191	CA	ILEM	11	2.755	5.062	-0.476	1.00	0.00
ATOM	192	HA	ILEM	11	2.394	5.648	-1.341	1.00	0.00
ATOM	193	CB	ILEM	11	4.017	5.799	0.133	1.00	0.00
ATOM	194	HB	ILEM	11	3.856	5.852	1.230	1.00	0.00
ATOM	195	QG2	ILEM	11	5.709	4.812	-0.185	1.00	0.00
ATOM	196	CG2	ILEM	11	5.347	5.020	-0.110	1.00	0.00
ATOM	197	1HG2	ILEM	11	5.459	4.696	-1.160	1.00	0.00
ATOM	198	2HG2	ILEM	11	6.248	5.628	0.085	1.00	0.00
ATOM	199	3HG2	ILEM	11	5.420	4.113	0.518	1.00	0.00
ATOM	200	CG1	ILEM	11	4.216	7.267	-0.364	1.00	0.00
ATOM	201	2HG1	ILEM	11	4.579	7.894	0.474	1.00	0.00
ATOM	202	QG1	ILEM	11	4.579	7.894	0.474	1.00	0.00
ATOM	203	QD1	ILEM	11	5.508	7.503	-1.810	1.00	0.00
ATOM	204	CD1	ILEM	11	5.234	7.459	-1.506	1.00	0.00
ATOM	205	1HD1	ILEM	11	5.939	6.610	-1.560	1.00	0.00
ATOM	206	2HD1	ILEM	11	4.736	7.531	-2.492	1.00	0.00
ATOM	207	3HD1	ILEM	11	5.848	8.369	-1.378	1.00	0.00
ATOM	208	C	ILEM	11	3.105	3.691	-1.002	1.00	0.00
ATOM	209	O	ILEM	11	2.872	2.660	-0.353	1.00	0.00
ATOM	210	N	PIPO	12	3.674	3.656	-2.192	1.00	0.00
ATOM	211	CE	PIPO	12	4.068	2.417	-2.829	1.00	0.00
ATOM	212	CA	PIPO	12	3.968	4.859	-2.954	1.00	0.00
ATOM	213	HA	PIPO	12	4.482	5.605	-2.347	1.00	0.00
ATOM	214	CB	PIPO	12	4.869	4.558	-4.166	1.00	0.00
ATOM	215	2HB	PIPO	12	5.067	5.482	-4.711	1.00	0.00
ATOM	216	3HB	PIPO	12	5.811	4.132	-3.822	1.00	0.00
ATOM	217	QB	PIPO	12	5.439	4.807	-4.266	1.00	0.00
ATOM	218	CG	PIPO	12	4.162	3.555	-5.097	1.00	0.00
ATOM	219	2HG	PIPO	12	4.800	3.343	-5.954	1.00	0.00
ATOM	220	3HG	PIPO	12	3.220	3.982	-5.442	1.00	0.00
ATOM	221	QG	PIPO	12	4.010	3.662	-5.698	1.00	0.00
ATOM	222	CD	PIPO	12	3.842	2.528	-4.349	1.00	0.00

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ATOM	223	2HD	PIPO	12	4.139	1.595	-4.830	1.00	0.00
ATOM	224	3HD	PIPO	12	2.787	2.718	-4.547	1.00	0.00
ATOM	225	OD	PIPO	12	3.463	2.157	-4.688	1.00	0.00
ATOM	226	1HE	PIPO	12	5.123	2.227	-2.633	1.00	0.00
ATOM	227	2HE	PIPO	12	3.470	1.598	-2.432	1.00	0.00
ATOM	228	QE	PIPO	12	4.297	1.912	-2.532	1.00	0.00
ATOM	229	C	PIPO	12	2.686	5.517	-3.493	1.00	0.00
ATOM	230	O	PIPO	12	2.500	6.714	-3.243	1.00	0.00
ATOM	231	O1'	PHEO	13	1.829	4.808	-4.204	1.00	0.00
ATOM	232	CA	PHEO	13	0.425	5.190	-4.328	1.00	0.00
ATOM	233	HA	PHEO	13	0.332	6.092	-4.962	1.00	0.00
ATOM	234	CB	PHEO	13	-0.148	5.476	-2.907	1.00	0.00
ATOM	235	2HB	PHEO	13	0.678	5.767	-2.229	1.00	0.00
ATOM	236	QB	PHEO	13	0.678	5.767	-2.229	1.00	0.00
ATOM	237	QD	PHEO	13	-1.359	6.673	-2.782	1.00	0.00
ATOM	238	QE	PHEO	13	-3.058	8.437	-2.542	1.00	0.00
ATOM	239	QR	PHEO	13	-2.549	7.909	-2.613	1.00	0.00
ATOM	240	CG	PHEO	13	-1.249	6.543	-2.816	1.00	0.00
ATOM	241	CD1	PHEO	13	-1.014	7.825	-3.325	1.00	0.00
ATOM	242	1HD	PHEO	13	-0.067	8.058	-3.797	1.00	0.00
ATOM	243	CE1	PHEO	13	-1.969	8.825	-3.179	1.00	0.00
ATOM	244	1HE	PHEO	13	-1.764	9.820	-3.548	1.00	0.00
ATOM	245	CZ	PHEO	13	-3.173	8.547	-2.538	1.00	0.00
ATOM	246	HZ	PHEO	13	-3.911	9.325	-2.420	1.00	0.00
ATOM	247	CE2	PHEO	13	-3.420	7.269	-2.039	1.00	0.00
ATOM	248	2HE	PHEO	13	-4.352	7.054	-1.535	1.00	0.00
ATOM	249	CD2	PHEO	13	-2.460	6.269	-2.175	1.00	0.00
ATOM	250	2HD	PHEO	13	-2.650	5.287	-1.767	1.00	0.00
ATOM	251	C	PHEO	13	-0.386	4.076	-4.943	1.00	0.00
ATOM	252	O	PHEO	13	-1.604	4.222	-5.244	1.00	0.00
TER									
ENDMDL									
MODEL 15									
ATOM	1	N	VALM	1	-0.628	3.382	-4.596	1.00	0.00
ATOM	2	QB	VALM	1	-2.293	4.159	-4.739	1.00	0.00
ATOM	3	CN	VALM	1	-1.965	4.006	-4.711	1.00	0.00
ATOM	4	1HNB	VALM	1	-2.378	4.166	-3.715	1.00	0.00
ATOM	5	2HNB	VALM	1	-1.877	4.963	-5.225	1.00	0.00
ATOM	6	3HNB	VALM	1	-2.626	3.349	-5.276	1.00	0.00
ATOM	7	CA	VALM	1	-0.460	1.948	-4.375	1.00	0.00
ATOM	8	HA	VALM	1	-1.433	1.519	-4.074	1.00	0.00
ATOM	9	CB	VALM	1	0.027	1.254	-5.709	1.00	0.00
ATOM	10	HB	VALM	1	-0.066	0.157	-5.560	1.00	0.00
ATOM	11	QG1	VALM	1	-1.004	1.681	-7.340	1.00	0.00
ATOM	12	QG2	VALM	1	1.902	1.613	-6.159	1.00	0.00
ATOM	13	CG1	VALM	1	-0.777	1.591	-6.995	1.00	0.00
ATOM	14	1HG1	VALM	1	-0.122	1.878	-7.841	1.00	0.00
ATOM	15	2HG1	VALM	1	-1.399	0.743	-7.337	1.00	0.00
ATOM	16	3HG1	VALM	1	-1.491	2.423	-6.842	1.00	0.00
ATOM	17	CG2	VALM	1	1.505	1.543	-6.063	1.00	0.00
ATOM	18	1HG2	VALM	1	1.711	2.626	-6.153	1.00	0.00
ATOM	19	2HG2	VALM	1	2.196	1.141	-5.302	1.00	0.00
ATOM	20	3HG2	VALM	1	1.797	1.073	-7.021	1.00	0.00
ATOM	21	QQG	VALM	1	0.449	1.647	-6.749	1.00	0.00
ATOM	22	C	VALM	1	0.509	1.684	-3.248	1.00	0.00
ATOM	23	O	VALM	1	1.490	2.412	-3.109	1.00	0.00
ATOM	24	N	PRO	2	0.215	0.628	-2.444	1.00	0.00
ATOM	25	CD	PRO	2	-0.939	-0.258	-2.578	1.00	0.00
ATOM	26	CA	PRO	2	1.073	0.276	-1.326	1.00	0.00

ATOM	27	HA	PRO	2	1.368	1.100	-0.842	1.00	0.00
ATOM	28	CB	PRO	2	0.221	-0.621	-0.442	1.00	0.00
ATOM	29	2HB	PRO	2	-0.162	-0.072	0.419	1.00	0.00
ATOM	30	QB	PRO	2	-0.162	-0.072	0.419	1.00	0.00
ATOM	31	CG	PRO	2	-0.916	-1.114	-1.323	1.00	0.00
ATOM	32	2HG	PRO	2	-1.867	-1.042	-0.794	1.00	0.00
ATOM	33	QG	PRO	2	-1.867	-1.042	-0.794	1.00	0.00
ATOM	34	2HD	PRO	2	-1.867	0.310	-2.653	1.00	0.00
ATOM	35	QD	PRO	2	-1.867	0.310	-2.653	1.00	0.00
ATOM	36	C	PRO	2	2.353	-0.405	-1.811	1.00	0.00
ATOM	37	O	PRO	2	2.403	-0.919	-2.928	1.00	0.00
ATOM	38	N	ILE	3	3.358	-0.389	-0.948	1.00	0.00
ATOM	39	H	ILE	3	3.310	0.031	-0.042	1.00	0.00
ATOM	40	CA	ILE	3	4.636	-0.999	-1.274	1.00	0.00
ATOM	41	HA	ILE	3	4.633	-1.210	-2.344	1.00	0.00
ATOM	42	CB	ILE	3	5.782	-0.019	-1.009	1.00	0.00
ATOM	43	HB	ILE	3	6.487	-0.495	-0.328	1.00	0.00
ATOM	44	QG2	ILE	3	6.721	0.374	-2.604	1.00	0.00
ATOM	45	CG2	ILE	3	6.542	0.298	-2.298	1.00	0.00
ATOM	46	1HG2	ILE	3	5.868	0.201	-3.150	1.00	0.00
ATOM	47	2HG2	ILE	3	6.924	1.318	-2.252	1.00	0.00
ATOM	48	3HG2	ILE	3	7.373	-0.398	-2.411	1.00	0.00
ATOM	49	CG1	ILE	3	5.271	1.247	-0.318	1.00	0.00
ATOM	50	2HG1	ILE	3	4.308	1.533	-0.741	1.00	0.00
ATOM	51	QG1	ILE	3	4.308	1.533	-0.741	1.00	0.00
ATOM	52	QD1	ILE	3	5.091	0.976	1.548	1.00	0.00
ATOM	53	CD1	ILE	3	5.126	1.028	1.190	1.00	0.00
ATOM	54	1HD1	ILE	3	5.619	1.840	1.724	1.00	0.00
ATOM	55	2HD1	ILE	3	4.068	1.008	1.454	1.00	0.00
ATOM	56	3HD1	ILE	3	5.587	0.079	1.465	1.00	0.00
ATOM	57	C	ILE	3	4.772	-2.323	-0.520	1.00	0.00
ATOM	58	O	ILE	3	5.259	-3.343	-1.029	1.00	0.00
ATOM	59	N	PIP	4	4.330	-2.304	0.723	1.00	0.00
ATOM	60	CE	PIP	4	3.760	-1.121	1.329	1.00	0.00
ATOM	61	CA	PIP	4	4.395	-3.468	1.594	1.00	0.00
ATOM	62	HA	PIP	4	5.386	-3.922	1.586	1.00	0.00
ATOM	63	CB	PIP	4	4.073	-3.104	3.055	1.00	0.00
ATOM	64	2HB	PIP	4	4.131	-3.998	3.675	1.00	0.00
ATOM	65	3HB	PIP	4	4.791	-2.366	3.413	1.00	0.00
ATOM	66	QB	PIP	4	4.461	-3.182	3.544	1.00	0.00
ATOM	67	CG	PIP	4	2.652	-2.515	3.136	1.00	0.00
ATOM	68	2HG	PIP	4	2.423	-2.257	4.170	1.00	0.00
ATOM	69	3HG	PIP	4	1.932	-3.252	2.779	1.00	0.00
ATOM	70	QG	PIP	4	2.178	-2.754	3.475	1.00	0.00
ATOM	71	CD	PIP	4	2.616	-1.528	2.276	1.00	0.00
ATOM	72	2HD	PIP	4	2.186	-0.635	2.732	1.00	0.00
ATOM	73	3HD	PIP	4	1.845	-2.053	1.711	1.00	0.00
ATOM	74	QD	PIP	4	2.016	-1.344	2.221	1.00	0.00
ATOM	75	1HE	PIP	4	4.529	-0.594	1.894	1.00	0.00
ATOM	76	2HE	PIP	4	3.370	-0.466	0.550	1.00	0.00
ATOM	77	QE	PIP	4	3.950	-0.530	1.222	1.00	0.00
ATOM	78	C	PIP	4	3.395	-4.554	1.164	1.00	0.00
ATOM	79	O	PIP	4	2.707	-4.280	0.183	1.00	0.00
ATOM	80	N	ALA	5	3.324	-5.694	1.836	1.00	0.00
ATOM	81	H	ALA	5	3.887	-5.910	2.633	1.00	0.00
ATOM	82	CA	ALA	5	2.392	-6.738	1.443	1.00	0.00
ATOM	83	HA	ALA	5	2.799	-7.230	0.559	1.00	0.00
ATOM	84	QB	ALA	5	2.244	-8.011	2.836	1.00	0.00
ATOM	85	CB	ALA	5	2.273	-7.766	2.569	1.00	0.00

ATOM	86	1HB	ALA	5	1.302	-8.258	2.510	1.00	0.00
ATOM	87	2HB	ALA	5	3.063	-8.510	2.468	1.00	0.00
ATOM	88	3HB	ALA	5	2.367	-7.264	3.532	1.00	0.00
ATOM	89	C	ALA	5	1.046	-6.105	1.084	1.00	0.00
ATOM	90	O	ALA	5	0.710	-5.031	1.579	1.00	0.00
ATOM	91	N	PRO	6	0.293	-6.817	0.203	1.00	0.00
ATOM	92	CD	PRO	6	0.661	-8.094	-0.404	1.00	0.00
ATOM	93	CA	PRO	6	-1.009	-6.337	-0.228	1.00	0.00
ATOM	94	HA	PRO	6	-0.975	-5.354	-0.405	1.00	0.00
ATOM	95	CB	PRO	6	-1.322	-7.128	-1.487	1.00	0.00
ATOM	96	2HB	PRO	6	-1.145	-6.527	-2.379	1.00	0.00
ATOM	97	QB	PRO	6	-1.145	-6.527	-2.379	1.00	0.00
ATOM	98	CG	PRO	6	-0.408	-8.341	-1.457	1.00	0.00
ATOM	99	2HG	PRO	6	0.049	-8.498	-2.435	1.00	0.00
ATOM	100	QG	PRO	6	0.049	-8.498	-2.435	1.00	0.00
ATOM	101	2HD	PRO	6	1.653	-8.049	-0.851	1.00	0.00
ATOM	102	QD	PRO	6	1.653	-8.049	-0.851	1.00	0.00
ATOM	103	C	PRO	6	-2.055	-6.528	0.873	1.00	0.00
ATOM	104	O	PRO	6	-2.341	-7.633	1.347	1.00	0.00
ATOM	105	N	THRM	7	-2.637	-5.418	1.288	1.00	0.00
ATOM	106	QB	THRM	7	-3.902	-5.614	2.614	1.00	0.00
ATOM	107	CN	THRM	7	-3.652	-5.576	2.351	1.00	0.00
ATOM	108	1HNB	THRM	7	-3.742	-6.629	2.616	1.00	0.00
ATOM	109	2HNB	THRM	7	-3.351	-5.006	3.231	1.00	0.00
ATOM	110	3HNB	THRM	7	-4.615	-5.208	1.994	1.00	0.00
ATOM	111	CA	THRM	7	-2.299	-4.112	0.728	1.00	0.00
ATOM	112	HA	THRM	7	-1.204	-4.064	0.590	1.00	0.00
ATOM	113	CB	THRM	7	-2.990	-3.914	-0.663	1.00	0.00
ATOM	114	HB	THRM	7	-3.500	-2.926	-0.663	1.00	0.00
ATOM	115	QG2	THRM	7	-1.826	-4.006	-2.237	1.00	0.00
ATOM	116	OG1	THRM	7	-3.965	-4.926	-0.883	1.00	0.00
ATOM	117	1HG	THRM	7	-4.388	-5.079	-0.033	1.00	0.00
ATOM	118	CG2	THRM	7	-2.071	-3.986	-1.901	1.00	0.00
ATOM	119	1HG2	THRM	7	-2.269	-4.883	-2.515	1.00	0.00
ATOM	120	2HG2	THRM	7	-2.207	-3.123	-2.580	1.00	0.00
ATOM	121	3HG2	THRM	7	-1.002	-4.012	-1.617	1.00	0.00
ATOM	122	C	THRM	7	-2.682	-3.001	1.677	1.00	0.00
ATOM	123	O	THRM	7	-3.529	-3.211	2.544	1.00	0.00
ATOM	124	N	VAL	8	-2.058	-1.846	1.501	1.00	0.00
ATOM	125	H	VAL	8	-1.370	-1.684	0.793	1.00	0.00
ATOM	126	CA	VAL	8	-2.343	-0.704	2.352	1.00	0.00
ATOM	127	HA	VAL	8	-3.349	-0.834	2.753	1.00	0.00
ATOM	128	CB	VAL	8	-1.365	-0.673	3.530	1.00	0.00
ATOM	129	HB	VAL	8	-1.148	0.371	3.757	1.00	0.00
ATOM	130	QG1	VAL	8	-2.135	-1.457	5.072	1.00	0.00
ATOM	131	QG2	VAL	8	0.266	-1.521	3.080	1.00	0.00
ATOM	132	CG1	VAL	8	-1.988	-1.307	4.776	1.00	0.00
ATOM	133	1HG1	VAL	8	-2.861	-1.892	4.488	1.00	0.00
ATOM	134	2HG1	VAL	8	-1.256	-1.956	5.257	1.00	0.00
ATOM	135	3HG1	VAL	8	-2.289	-0.522	5.471	1.00	0.00
ATOM	136	CG2	VAL	8	-0.047	-1.359	3.167	1.00	0.00
ATOM	137	1HG2	VAL	8	-0.204	-2.435	3.098	1.00	0.00
ATOM	138	2HG2	VAL	8	0.306	-0.981	2.207	1.00	0.00
ATOM	139	3HG2	VAL	8	0.696	-1.147	3.935	1.00	0.00
ATOM	140	QQG	VAL	8	-0.934	-1.489	4.076	1.00	0.00
ATOM	141	C	VAL	8	-2.308	0.574	1.514	1.00	0.00
ATOM	142	O	VAL	8	-1.914	0.601	0.341	1.00	0.00
ATOM	143	N	THRM	9	-2.733	1.660	2.133	1.00	0.00
ATOM	144	QB	THRM	9	-3.282	1.433	3.878	1.00	0.00

ATOM	145	CN	THRM	9	-3.174	1.477	3.534	1.00	0.00
ATOM	146	1HNB	THRM	9	-3.064	0.430	3.816	1.00	0.00
ATOM	147	2HNB	THRM	9	-2.563	2.097	4.190	1.00	0.00
ATOM	148	3HNB	THRM	9	-4.219	1.771	3.627	1.00	0.00
ATOM	149	CA	THRM	9	-2.766	2.963	1.475	1.00	0.00
ATOM	150	HA	THRM	9	-2.440	2.833	0.427	1.00	0.00
ATOM	151	CB	THRM	9	-4.219	3.547	1.483	1.00	0.00
ATOM	152	HB	THRM	9	-4.305	4.256	2.333	1.00	0.00
ATOM	153	QG2	THRM	9	-4.791	4.471	-0.148	1.00	0.00
ATOM	154	OG1	THRM	9	-5.172	2.507	1.660	1.00	0.00
ATOM	155	1HG	THRM	9	-5.990	2.938	1.923	1.00	0.00
ATOM	156	CG2	THRM	9	-4.671	4.272	0.197	1.00	0.00
ATOM	157	1HG2	THRM	9	-4.919	5.333	0.384	1.00	0.00
ATOM	158	2HG2	THRM	9	-3.888	4.280	-0.582	1.00	0.00
ATOM	159	3HG2	THRM	9	-5.567	3.799	-0.247	1.00	0.00
ATOM	160	C	THRM	9	-1.801	3.923	2.129	1.00	0.00
ATOM	161	O	THRM	9	-2.183	4.886	2.765	1.00	0.00
ATOM	162	N	VALM	10	-0.518	3.655	1.970	1.00	0.00
ATOM	163	QB	VALM	10	-0.126	2.153	0.975	1.00	0.00
ATOM	164	CN	VALM	10	-0.203	2.450	1.170	1.00	0.00
ATOM	165	1HNB	VALM	10	-0.793	2.455	0.255	1.00	0.00
ATOM	166	2HNB	VALM	10	0.857	2.446	0.919	1.00	0.00
ATOM	167	3HNB	VALM	10	-0.442	1.557	1.750	1.00	0.00
ATOM	168	CA	VALM	10	0.527	4.497	2.545	1.00	0.00
ATOM	169	HA	VALM	10	0.169	5.543	2.566	1.00	0.00
ATOM	170	CB	VALM	10	0.844	4.024	4.020	1.00	0.00
ATOM	171	HB	VALM	10	1.727	3.354	3.965	1.00	0.00
ATOM	172	QG1	VALM	10	1.289	5.440	5.323	1.00	0.00
ATOM	173	QG2	VALM	10	-0.609	3.001	4.850	1.00	0.00
ATOM	174	CG1	VALM	10	1.200	5.140	5.039	1.00	0.00
ATOM	175	1HG1	VALM	10	2.024	5.788	4.687	1.00	0.00
ATOM	176	2HG1	VALM	10	0.338	5.799	5.259	1.00	0.00
ATOM	177	3HG1	VALM	10	1.504	4.733	6.022	1.00	0.00
ATOM	178	CG2	VALM	10	-0.301	3.218	4.680	1.00	0.00
ATOM	179	1HG2	VALM	10	-0.192	3.158	5.779	1.00	0.00
ATOM	180	2HG2	VALM	10	-1.290	3.664	4.473	1.00	0.00
ATOM	181	3HG2	VALM	10	-0.347	2.181	4.297	1.00	0.00
ATOM	182	QQG	VALM	10	0.340	4.221	5.086	1.00	0.00
ATOM	183	C	VALM	10	1.772	4.471	1.693	1.00	0.00
ATOM	184	O	VALM	10	2.834	3.983	2.099	1.00	0.00
ATOM	185	N	ILEM	11	1.661	5.002	0.489	1.00	0.00
ATOM	186	QB	ILEM	11	0.003	5.681	0.056	1.00	0.00
ATOM	187	CN	ILEM	11	0.330	5.547	0.141	1.00	0.00
ATOM	188	1HNB	ILEM	11	-0.352	5.407	0.981	1.00	0.00
ATOM	189	2HNB	ILEM	11	0.420	6.611	-0.079	1.00	0.00
ATOM	190	3HNB	ILEM	11	-0.059	5.026	-0.733	1.00	0.00
ATOM	191	CA	ILEM	11	2.784	5.047	-0.443	1.00	0.00
ATOM	192	HA	ILEM	11	2.482	5.677	-1.299	1.00	0.00
ATOM	193	CB	ILEM	11	4.064	5.695	0.226	1.00	0.00
ATOM	194	HB	ILEM	11	3.856	5.752	1.316	1.00	0.00
ATOM	195	QG2	ILEM	11	5.693	4.589	-0.014	1.00	0.00
ATOM	196	CG2	ILEM	11	5.348	4.832	0.036	1.00	0.00
ATOM	197	1HG2	ILEM	11	5.318	3.896	0.623	1.00	0.00
ATOM	198	2HG2	ILEM	11	5.497	4.496	-1.005	1.00	0.00
ATOM	199	3HG2	ILEM	11	6.263	5.374	0.341	1.00	0.00
ATOM	200	CG1	ILEM	11	4.381	7.149	-0.248	1.00	0.00
ATOM	201	2HG1	ILEM	11	4.698	7.760	0.619	1.00	0.00
ATOM	202	QG1	ILEM	11	4.698	7.760	0.619	1.00	0.00
ATOM	203	QD1	ILEM	11	5.809	7.327	-1.568	1.00	0.00

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ATOM	204	CD1	ILEM	11	5.507	7.286	-1.294	1.00	0.00
ATOM	205	1HD1	ILEM	11	6.152	8.156	-1.075	1.00	0.00
ATOM	206	2HD1	ILEM	11	6.159	6.393	-1.312	1.00	0.00
ATOM	207	3HD1	ILEM	11	5.117	7.432	-2.317	1.00	0.00
ATOM	208	C	ILEM	11	3.077	3.676	-1.005	1.00	0.00
ATOM	209	O	ILEM	11	2.740	2.638	-0.414	1.00	0.00
ATOM	210	N	PIPO	12	3.713	3.647	-2.161	1.00	0.00
ATOM	211	CE	PIPO	12	4.065	2.412	-2.824	1.00	0.00
ATOM	212	CA	PIPO	12	4.128	4.858	-2.854	1.00	0.00
ATOM	213	HA	PIPO	12	4.650	5.544	-2.188	1.00	0.00
ATOM	214	CB	PIPO	12	5.079	4.544	-4.023	1.00	0.00
ATOM	215	2HB	PIPO	12	5.367	5.471	-4.517	1.00	0.00
ATOM	216	3HB	PIPO	12	5.970	4.043	-3.644	1.00	0.00
ATOM	217	QB	PIPO	12	5.668	4.757	-4.081	1.00	0.00
ATOM	218	CG	PIPO	12	4.367	3.625	-5.033	1.00	0.00
ATOM	219	2HG	PIPO	12	5.041	3.403	-5.861	1.00	0.00
ATOM	220	3HG	PIPO	12	3.477	4.125	-5.414	1.00	0.00
ATOM	221	QG	PIPO	12	4.259	3.764	-5.638	1.00	0.00
ATOM	222	CD	PIPO	12	3.938	2.592	-4.349	1.00	0.00
ATOM	223	2HD	PIPO	12	4.203	1.661	-4.849	1.00	0.00
ATOM	224	3HD	PIPO	12	2.911	2.860	-4.598	1.00	0.00
ATOM	225	QD	PIPO	12	3.557	2.261	-4.724	1.00	0.00
ATOM	226	1HE	PIPO	12	5.091	2.145	-2.576	1.00	0.00
ATOM	227	2HE	PIPO	12	3.393	1.618	-2.496	1.00	0.00
ATOM	228	QE	PIPO	12	4.242	1.881	-2.536	1.00	0.00
ATOM	229	C	PIPO	12	2.925	5.618	-3.437	1.00	0.00
ATOM	230	O	PIPO	12	2.699	6.758	-3.015	1.00	0.00
ATOM	231	O1'	PHEO	13	2.174	5.054	-4.366	1.00	0.00
ATOM	232	CA	PHEO	13	0.733	5.275	-4.435	1.00	0.00
ATOM	233	HA	PHEO	13	0.516	6.189	-5.018	1.00	0.00
ATOM	234	CB	PHEO	13	0.175	5.424	-2.987	1.00	0.00
ATOM	235	2HB	PHEO	13	0.944	5.096	-2.261	1.00	0.00
ATOM	236	QB	PHEO	13	0.944	5.096	-2.261	1.00	0.00
ATOM	237	QD	PHEO	13	-0.385	6.977	-2.555	1.00	0.00
ATOM	238	QE	PHEO	13	-1.263	9.202	-1.974	1.00	0.00
ATOM	239	QR	PHEO	13	-1.001	8.536	-2.148	1.00	0.00
ATOM	240	CG	PHEO	13	-0.309	6.825	-2.582	1.00	0.00
ATOM	241	CD1	PHEO	13	-1.328	6.956	-1.632	1.00	0.00
ATOM	242	1HD	PHEO	13	-1.762	6.076	-1.173	1.00	0.00
ATOM	243	CE1	PHEO	13	-1.833	8.212	-1.312	1.00	0.00
ATOM	244	1HE	PHEO	13	-2.641	8.300	-0.601	1.00	0.00
ATOM	245	CZ	PHEO	13	-1.310	9.347	-1.927	1.00	0.00
ATOM	246	HZ	PHEO	13	-1.707	10.321	-1.683	1.00	0.00
ATOM	247	CE2	PHEO	13	-0.286	9.225	-2.865	1.00	0.00
ATOM	248	2HE	PHEO	13	0.115	10.104	-3.347	1.00	0.00
ATOM	249	CD2	PHEO	13	0.212	7.967	-3.193	1.00	0.00
ATOM	250	2HD	PHEO	13	0.992	7.878	-3.937	1.00	0.00
ATOM	251	C	PHEO	13	0.036	4.104	-5.087	1.00	0.00
ATOM	252	O	PHEO	13	0.004	3.958	-6.340	1.00	0.00
TER									
ENDMDL									
MODEL 16									
ATOM	1	N	VALM	1	-0.202	3.122	-5.127	1.00	0.00
ATOM	2	QB	VALM	1	-0.779	3.507	-6.835	1.00	0.00
ATOM	3	CN	VALM	1	-0.665	3.431	-6.498	1.00	0.00
ATOM	4	1HNB	VALM	1	-1.474	2.753	-6.771	1.00	0.00
ATOM	5	2HNB	VALM	1	-1.025	4.459	-6.538	1.00	0.00
ATOM	6	3HNB	VALM	1	0.162	3.310	-7.197	1.00	0.00
ATOM	7	CA	VALM	1	-0.405	1.810	-4.520	1.00	0.00



ATOM	8	HA	VALM	1	-1.426	1.765	-4.101	1.00	0.00
ATOM	9	CB	VALM	1	-0.240	0.682	-5.615	1.00	0.00
ATOM	10	HB	VALM	1	-0.043	-0.270	-5.077	1.00	0.00
ATOM	11	QG1	VALM	1	-1.808	0.351	-6.770	1.00	0.00
ATOM	12	QG2	VALM	1	1.269	0.978	-6.833	1.00	0.00
ATOM	13	CG1	VALM	1	-1.468	0.424	-6.530	1.00	0.00
ATOM	14	1HG1	VALM	1	-1.268	0.676	-7.589	1.00	0.00
ATOM	15	2HG1	VALM	1	-1.800	-0.632	-6.502	1.00	0.00
ATOM	16	3HG1	VALM	1	-2.356	1.008	-6.220	1.00	0.00
ATOM	17	CG2	VALM	1	0.947	0.913	-6.581	1.00	0.00
ATOM	18	1HG2	VALM	1	0.717	0.591	-7.613	1.00	0.00
ATOM	19	2HG2	VALM	1	1.236	1.979	-6.629	1.00	0.00
ATOM	20	3HG2	VALM	1	1.853	0.365	-6.258	1.00	0.00
ATOM	21	QQG	VALM	1	-0.270	0.665	-6.802	1.00	0.00
ATOM	22	C	VALM	1	0.553	1.589	-3.374	1.00	0.00
ATOM	23	O	VALM	1	1.538	2.319	-3.258	1.00	0.00
ATOM	24	N	PRO	2	0.247	0.570	-2.528	1.00	0.00
ATOM	25	CD	PRO	2	-0.909	-0.316	-2.634	1.00	0.00
ATOM	26	CA	PRO	2	1.095	0.262	-1.388	1.00	0.00
ATOM	27	HA	PRO	2	1.390	1.105	-0.938	1.00	0.00
ATOM	28	CB	PRO	2	0.231	-0.593	-0.475	1.00	0.00
ATOM	29	2HB	PRO	2	-0.155	-0.005	0.358	1.00	0.00
ATOM	30	QB	PRO	2	-0.155	-0.005	0.358	1.00	0.00
ATOM	31	CG	PRO	2	-0.901	-1.117	-1.343	1.00	0.00
ATOM	32	2HG	PRO	2	-1.855	-1.020	-0.826	1.00	0.00
ATOM	33	QG	PRO	2	-1.855	-1.020	-0.826	1.00	0.00
ATOM	34	2HD	PRO	2	-1.834	0.252	-2.741	1.00	0.00
ATOM	35	QD	PRO	2	-1.834	0.252	-2.741	1.00	0.00
ATOM	36	C	PRO	2	2.377	-0.445	-1.834	1.00	0.00
ATOM	37	O	PRO	2	2.426	-1.027	-2.916	1.00	0.00
ATOM	38	N	ILE	3	3.384	-0.371	-0.976	1.00	0.00
ATOM	39	H	ILE	3	3.336	0.105	-0.097	1.00	0.00
ATOM	40	CA	ILE	3	4.662	-0.997	-1.267	1.00	0.00
ATOM	41	HA	ILE	3	4.676	-1.233	-2.330	1.00	0.00
ATOM	42	CB	ILE	3	5.809	-0.018	-1.005	1.00	0.00
ATOM	43	HB	ILE	3	6.503	-0.485	-0.306	1.00	0.00
ATOM	44	QG2	ILE	3	6.775	0.335	-2.595	1.00	0.00
ATOM	45	CG2	ILE	3	6.590	0.268	-2.290	1.00	0.00
ATOM	46	1HG2	ILE	3	5.892	0.397	-3.118	1.00	0.00
ATOM	47	2HG2	ILE	3	7.176	1.177	-2.164	1.00	0.00
ATOM	48	3HG2	ILE	3	7.256	-0.568	-2.504	1.00	0.00
ATOM	49	CG1	ILE	3	5.297	1.265	-0.348	1.00	0.00
ATOM	50	2HG1	ILE	3	4.347	1.553	-0.797	1.00	0.00
ATOM	51	QG1	ILE	3	4.347	1.553	-0.797	1.00	0.00
ATOM	52	QD1	ILE	3	5.074	1.029	1.518	1.00	0.00
ATOM	53	CD1	ILE	3	5.117	1.075	1.160	1.00	0.00
ATOM	54	1HD1	ILE	3	5.613	1.888	1.690	1.00	0.00
ATOM	55	2HD1	ILE	3	4.054	1.076	1.402	1.00	0.00
ATOM	56	3HD1	ILE	3	5.556	0.123	1.461	1.00	0.00
ATOM	57	C	ILE	3	4.777	-2.303	-0.478	1.00	0.00
ATOM	58	O	ILE	3	5.272	-3.337	-0.953	1.00	0.00
ATOM	59	N	PIP	4	4.308	-2.254	0.755	1.00	0.00
ATOM	60	CE	PIP	4	3.729	-1.054	1.319	1.00	0.00
ATOM	61	CA	PIP	4	4.351	-3.397	1.653	1.00	0.00
ATOM	62	HA	PIP	4	5.340	-3.854	1.677	1.00	0.00
ATOM	63	CB	PIP	4	3.998	-2.997	3.098	1.00	0.00
ATOM	64	2HB	PIP	4	4.040	-3.877	3.740	1.00	0.00
ATOM	65	3HB	PIP	4	4.711	-2.255	3.454	1.00	0.00
ATOM	66	QB	PIP	4	4.375	-3.066	3.597	1.00	0.00

ATOM	67	CG	PIP	4	2.578	-2.403	3.135	1.00	0.00
ATOM	68	2HG	PIP	4	2.329	-2.120	4.158	1.00	0.00
ATOM	69	3HG	PIP	4	1.864	-3.146	2.779	1.00	0.00
ATOM	70	QG	PIP	4	2.096	-2.633	3.469	1.00	0.00
ATOM	71	CD	PIP	4	2.563	-1.436	2.251	1.00	0.00
ATOM	72	2HD	PIP	4	2.128	-0.531	2.676	1.00	0.00
ATOM	73	3HD	PIP	4	1.804	-1.972	1.682	1.00	0.00
ATOM	74	OD	PIP	4	1.966	-1.252	2.179	1.00	0.00
ATOM	75	1HE	PIP	4	4.488	-0.518	1.889	1.00	0.00
ATOM	76	2HE	PIP	4	3.359	-0.417	0.517	1.00	0.00
ATOM	77	QE	PIP	4	3.924	-0.467	1.203	1.00	0.00
ATOM	78	C	PIP	4	3.355	-4.490	1.228	1.00	0.00
ATOM	79	O	PIP	4	2.666	-4.223	0.244	1.00	0.00
ATOM	80	N	ALA	5	3.289	-5.628	1.904	1.00	0.00
ATOM	81	H	ALA	5	3.853	-5.836	2.703	1.00	0.00
ATOM	82	CA	ALA	5	2.363	-6.677	1.515	1.00	0.00
ATOM	83	HA	ALA	5	2.787	-7.190	0.651	1.00	0.00
ATOM	84	QB	ALA	5	2.181	-7.917	2.933	1.00	0.00
ATOM	85	CB	ALA	5	2.215	-7.679	2.661	1.00	0.00
ATOM	86	1HB	ALA	5	3.049	-7.564	3.354	1.00	0.00
ATOM	87	2HB	ALA	5	1.278	-7.496	3.185	1.00	0.00
ATOM	88	3HB	ALA	5	2.215	-8.692	2.260	1.00	0.00
ATOM	89	C	ALA	5	1.026	-6.049	1.113	1.00	0.00
ATOM	90	O	ALA	5	0.663	-4.985	1.611	1.00	0.00
ATOM	91	N	PRO	6	0.314	-6.753	0.193	1.00	0.00
ATOM	92	CD	PRO	6	0.715	-8.017	-0.418	1.00	0.00
ATOM	93	CA	PRO	6	-0.974	-6.276	-0.281	1.00	0.00
ATOM	94	HA	PRO	6	-0.941	-5.289	-0.442	1.00	0.00
ATOM	95	CB	PRO	6	-1.232	-7.049	-1.564	1.00	0.00
ATOM	96	2HB	PRO	6	-1.025	-6.433	-2.439	1.00	0.00
ATOM	97	QB	PRO	6	-1.025	-6.433	-2.439	1.00	0.00
ATOM	98	CG	PRO	6	-0.309	-8.256	-1.516	1.00	0.00
ATOM	99	2HG	PRO	6	0.186	-8.396	-2.477	1.00	0.00
ATOM	100	QG	PRO	6	0.186	-8.396	-2.477	1.00	0.00
ATOM	101	2HD	PRO	6	1.724	-7.958	-0.825	1.00	0.00
ATOM	102	QD	PRO	6	1.724	-7.958	-0.825	1.00	0.00
ATOM	103	C	PRO	6	-2.060	-6.491	0.776	1.00	0.00
ATOM	104	O	PRO	6	-2.355	-7.606	1.223	1.00	0.00
ATOM	105	N	THRM	7	-2.668	-5.391	1.182	1.00	0.00
ATOM	106	QB	THRM	7	-3.982	-5.618	2.455	1.00	0.00
ATOM	107	CN	THRM	7	-3.723	-5.574	2.203	1.00	0.00
ATOM	108	1HNB	THRM	7	-3.813	-6.631	2.448	1.00	0.00
ATOM	109	2HNB	THRM	7	-3.460	-5.014	3.101	1.00	0.00
ATOM	110	3HNB	THRM	7	-4.674	-5.209	1.814	1.00	0.00
ATOM	111	CA	THRM	7	-2.320	-4.075	0.654	1.00	0.00
ATOM	112	HA	THRM	7	-1.224	-4.029	0.526	1.00	0.00
ATOM	113	CB	THRM	7	-3.000	-3.843	-0.737	1.00	0.00
ATOM	114	HB	THRM	7	-3.458	-2.831	-0.739	1.00	0.00
ATOM	115	QG2	THRM	7	-1.836	-3.992	-2.308	1.00	0.00
ATOM	116	OG1	THRM	7	-4.024	-4.805	-0.958	1.00	0.00
ATOM	117	1HG	THRM	7	-3.579	-5.654	-1.041	1.00	0.00
ATOM	118	CG2	THRM	7	-2.084	-3.963	-1.974	1.00	0.00
ATOM	119	1HG2	THRM	7	-2.184	-3.095	-2.652	1.00	0.00
ATOM	120	2HG2	THRM	7	-1.013	-4.010	-1.705	1.00	0.00
ATOM	121	3HG2	THRM	7	-2.311	-4.869	-2.567	1.00	0.00
ATOM	122	C	THRM	7	-2.706	-2.985	1.625	1.00	0.00
ATOM	123	O	THRM	7	-3.563	-3.209	2.479	1.00	0.00
ATOM	124	N	VAL	8	-2.075	-1.829	1.481	1.00	0.00
ATOM	125	H	VAL	8	-1.379	-1.655	0.784	1.00	0.00

ATOM	126	CA	VAL	8	-2.362	-0.705	2.356	1.00	0.00
ATOM	127	HA	VAL	8	-3.374	-0.835	2.737	1.00	0.00
ATOM	128	CB	VAL	8	-1.403	-0.712	3.548	1.00	0.00
ATOM	129	HB	VAL	8	-1.197	0.324	3.818	1.00	0.00
ATOM	130	QG1	VAL	8	-2.190	-1.559	5.047	1.00	0.00
ATOM	131	QG2	VAL	8	0.242	-1.531	3.091	1.00	0.00
ATOM	132	CG1	VAL	8	-2.039	-1.397	4.759	1.00	0.00
ATOM	133	1HG1	VAL	8	-2.896	-1.987	4.435	1.00	0.00
ATOM	134	2HG1	VAL	8	-1.306	-2.051	5.234	1.00	0.00
ATOM	135	3HG1	VAL	8	-2.367	-0.641	5.473	1.00	0.00
ATOM	136	CG2	VAL	8	-0.074	-1.375	3.179	1.00	0.00
ATOM	137	1HG2	VAL	8	0.232	-1.045	2.186	1.00	0.00
ATOM	138	2HG2	VAL	8	0.688	-1.091	3.906	1.00	0.00
ATOM	139	3HG2	VAL	8	-0.194	-2.457	3.181	1.00	0.00
ATOM	140	QQG	VAL	8	-0.974	-1.545	4.069	1.00	0.00
ATOM	141	C	VAL	8	-2.302	0.593	1.548	1.00	0.00
ATOM	142	O	VAL	8	-1.897	0.642	0.380	1.00	0.00
ATOM	143	N	THRM	9	-2.717	1.669	2.190	1.00	0.00
ATOM	144	QB	THRM	9	-3.285	1.407	3.924	1.00	0.00
ATOM	145	CN	THRM	9	-3.174	1.459	3.582	1.00	0.00
ATOM	146	1HNB	THRM	9	-3.080	0.404	3.840	1.00	0.00
ATOM	147	2HNB	THRM	9	-2.560	2.053	4.260	1.00	0.00
ATOM	148	3HNB	THRM	9	-4.216	1.764	3.673	1.00	0.00
ATOM	149	CA	THRM	9	-2.726	2.988	1.564	1.00	0.00
ATOM	150	HA	THRM	9	-2.418	2.875	0.509	1.00	0.00
ATOM	151	CB	THRM	9	-4.164	3.607	1.606	1.00	0.00
ATOM	152	HB	THRM	9	-4.134	4.593	1.094	1.00	0.00
ATOM	153	QG2	THRM	9	-5.592	2.533	0.801	1.00	0.00
ATOM	154	OG1	THRM	9	-4.582	3.806	2.949	1.00	0.00
ATOM	155	1HG	THRM	9	-5.147	4.584	2.941	1.00	0.00
ATOM	156	CG2	THRM	9	-5.290	2.763	0.971	1.00	0.00
ATOM	157	1HG2	THRM	9	-4.905	2.053	0.217	1.00	0.00
ATOM	158	2HG2	THRM	9	-5.828	2.147	1.717	1.00	0.00
ATOM	159	3HG2	THRM	9	-6.045	3.398	0.469	1.00	0.00
ATOM	160	C	THRM	9	-1.730	3.909	2.228	1.00	0.00
ATOM	161	O	THRM	9	-2.079	4.854	2.906	1.00	0.00
ATOM	162	N	VALM	10	-0.456	3.624	2.028	1.00	0.00
ATOM	163	QB	VALM	10	-0.112	2.152	0.973	1.00	0.00
ATOM	164	CN	VALM	10	-0.181	2.442	1.181	1.00	0.00
ATOM	165	1HNB	VALM	10	-0.423	1.534	1.733	1.00	0.00
ATOM	166	2HNB	VALM	10	-0.789	2.492	0.279	1.00	0.00
ATOM	167	3HNB	VALM	10	0.875	2.429	0.908	1.00	0.00
ATOM	168	CA	VALM	10	0.617	4.427	2.608	1.00	0.00
ATOM	169	HA	VALM	10	0.274	5.475	2.686	1.00	0.00
ATOM	170	CB	VALM	10	0.974	3.885	4.048	1.00	0.00
ATOM	171	HB	VALM	10	1.908	3.292	3.953	1.00	0.00
ATOM	172	QG1	VALM	10	1.325	5.244	5.439	1.00	0.00
ATOM	173	QG2	VALM	10	-0.394	2.700	4.807	1.00	0.00
ATOM	174	CG1	VALM	10	1.241	4.957	5.142	1.00	0.00
ATOM	175	1HG1	VALM	10	0.345	5.564	5.368	1.00	0.00
ATOM	176	2HG1	VALM	10	1.582	4.509	6.094	1.00	0.00
ATOM	177	3HG1	VALM	10	2.047	5.659	4.855	1.00	0.00
ATOM	178	CG2	VALM	10	-0.101	2.948	4.651	1.00	0.00
ATOM	179	1HG2	VALM	10	0.288	2.351	5.496	1.00	0.00
ATOM	180	2HG2	VALM	10	-0.975	3.512	5.025	1.00	0.00
ATOM	181	3HG2	VALM	10	-0.495	2.237	3.899	1.00	0.00
ATOM	182	QQG	VALM	10	0.465	3.972	5.123	1.00	0.00
ATOM	183	C	VALM	10	1.835	4.426	1.717	1.00	0.00
ATOM	184	O	VALM	10	2.918	3.957	2.086	1.00	0.00

ATOM	185	N	ILEM	11	1.676	4.957	0.518	1.00	0.00
ATOM	186	QB	ILEM	11	-0.007	5.607	0.140	1.00	0.00
ATOM	187	CN	ILEM	11	0.325	5.480	0.214	1.00	0.00
ATOM	188	1HNB	ILEM	11	-0.327	5.325	1.074	1.00	0.00
ATOM	189	2HNB	ILEM	11	0.388	6.544	-0.007	1.00	0.00
ATOM	190	3HNB	ILEM	11	-0.082	4.953	-0.649	1.00	0.00
ATOM	191	CA	ILEM	11	2.767	5.025	-0.449	1.00	0.00
ATOM	192	HA	ILEM	11	2.426	5.650	-1.295	1.00	0.00
ATOM	193	CB	ILEM	11	4.054	5.698	0.180	1.00	0.00
ATOM	194	HB	ILEM	11	3.865	5.787	1.270	1.00	0.00
ATOM	195	QG2	ILEM	11	5.686	4.593	-0.052	1.00	0.00
ATOM	196	CG2	ILEM	11	5.340	4.835	-0.006	1.00	0.00
ATOM	197	1HG2	ILEM	11	5.407	4.014	0.731	1.00	0.00
ATOM	198	2HG2	ILEM	11	5.387	4.327	-0.985	1.00	0.00
ATOM	199	3HG2	ILEM	11	6.263	5.436	0.098	1.00	0.00
ATOM	200	CG1	ILEM	11	4.357	7.139	-0.342	1.00	0.00
ATOM	201	2HG1	ILEM	11	4.142	7.192	-1.427	1.00	0.00
ATOM	202	QG1	ILEM	11	4.142	7.192	-1.427	1.00	0.00
ATOM	203	QD1	ILEM	11	3.316	8.576	0.474	1.00	0.00
ATOM	204	CD1	ILEM	11	3.539	8.276	0.304	1.00	0.00
ATOM	205	1HD1	ILEM	11	2.535	8.355	-0.151	1.00	0.00
ATOM	206	2HD1	ILEM	11	3.393	8.110	1.388	1.00	0.00
ATOM	207	3HD1	ILEM	11	4.019	9.264	0.183	1.00	0.00
ATOM	208	C	ILEM	11	3.070	3.660	-1.020	1.00	0.00
ATOM	209	O	ILEM	11	2.763	2.617	-0.425	1.00	0.00
ATOM	210	N	PIPO	12	3.680	3.645	-2.190	1.00	0.00
ATOM	211	CE	PIPO	12	4.037	2.416	-2.866	1.00	0.00
ATOM	212	CA	PIPO	12	4.060	4.862	-2.890	1.00	0.00
ATOM	213	HA	PIPO	12	4.586	5.556	-2.234	1.00	0.00
ATOM	214	CB	PIPO	12	4.989	4.566	-4.081	1.00	0.00
ATOM	215	2HB	PIPO	12	5.251	5.500	-4.579	1.00	0.00
ATOM	216	3HB	PIPO	12	5.897	4.079	-3.722	1.00	0.00
ATOM	217	QB	PIPO	12	5.574	4.790	-4.151	1.00	0.00
ATOM	218	CG	PIPO	12	4.270	3.639	-5.077	1.00	0.00
ATOM	219	2HG	PIPO	12	4.928	3.428	-5.920	1.00	0.00
ATOM	220	3HG	PIPO	12	3.362	4.124	-5.437	1.00	0.00
ATOM	221	QG	PIPO	12	4.145	3.776	-5.679	1.00	0.00
ATOM	222	CD	PIPO	12	3.873	2.598	-4.385	1.00	0.00
ATOM	223	2HD	PIPO	12	4.141	1.673	-4.895	1.00	0.00
ATOM	224	3HD	PIPO	12	2.836	2.849	-4.612	1.00	0.00
ATOM	225	QD	PIPO	12	3.489	2.261	-4.753	1.00	0.00
ATOM	226	1HE	PIPO	12	5.073	2.165	-2.640	1.00	0.00
ATOM	227	2HE	PIPO	12	3.387	1.611	-2.524	1.00	0.00
ATOM	228	QE	PIPO	12	4.230	1.888	-2.582	1.00	0.00
ATOM	229	C	PIPO	12	2.832	5.603	-3.445	1.00	0.00
ATOM	230	O	PIPO	12	2.710	6.805	-3.178	1.00	0.00
ATOM	231	O1'	PHEO	13	1.951	4.960	-4.188	1.00	0.00
ATOM	232	CA	PHEO	13	0.543	5.345	-4.227	1.00	0.00
ATOM	233	HA	PHEO	13	0.394	6.162	-4.958	1.00	0.00
ATOM	234	CB	PHEO	13	0.108	5.815	-2.806	1.00	0.00
ATOM	235	2HB	PHEO	13	0.935	5.638	-2.091	1.00	0.00
ATOM	236	QB	PHEO	13	0.935	5.638	-2.091	1.00	0.00
ATOM	237	QD	PHEO	13	-0.365	7.447	-2.643	1.00	0.00
ATOM	238	QE	PHEO	13	-0.975	9.816	-2.368	1.00	0.00
ATOM	239	QR	PHEO	13	-0.792	9.107	-2.451	1.00	0.00
ATOM	240	CG	PHEO	13	-0.338	7.280	-2.677	1.00	0.00
ATOM	241	CD1	PHEO	13	0.310	8.268	-3.428	1.00	0.00
ATOM	242	1HD	PHEO	13	1.106	8.000	-4.109	1.00	0.00
ATOM	243	CE1	PHEO	13	-0.028	9.608	-3.263	1.00	0.00

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ATOM	244	1HE	PHEO	13	0.499	10.366	-3.826	1.00	0.00
ATOM	245	CZ	PHEO	13	-1.025	9.967	-2.359	1.00	0.00
ATOM	246	HZ	PHEO	13	-1.280	11.007	-2.229	1.00	0.00
ATOM	247	CE2	PHEO	13	-1.680	8.987	-1.617	1.00	0.00
ATOM	248	2HE	PHEO	13	-2.449	9.266	-0.911	1.00	0.00
ATOM	249	CD2	PHEO	13	-1.338	7.647	-1.773	1.00	0.00
ATOM	250	2HD	PHEO	13	-1.835	6.895	-1.178	1.00	0.00
ATOM	251	C	PHEO	13	-0.327	4.175	-4.620	1.00	0.00
ATOM	252	O	PHEO	13	-1.516	4.058	-4.208	1.00	0.00
TER									
ENDMDL									
MODEL 17									
ATOM	1	N	VALM	1	0.202	3.145	-5.181	1.00	0.00
ATOM	2	QB	VALM	1	1.378	3.099	-6.600	1.00	0.00
ATOM	3	CN	VALM	1	1.146	3.108	-6.320	1.00	0.00
ATOM	4	1HNB	VALM	1	2.164	3.245	-5.954	1.00	0.00
ATOM	5	2HNB	VALM	1	1.068	2.145	-6.826	1.00	0.00
ATOM	6	3HNB	VALM	1	0.902	3.907	-7.021	1.00	0.00
ATOM	7	CA	VALM	1	-0.198	1.935	-4.468	1.00	0.00
ATOM	8	HA	VALM	1	-1.217	2.081	-4.064	1.00	0.00
ATOM	9	CB	VALM	1	-0.200	0.705	-5.459	1.00	0.00
ATOM	10	HB	VALM	1	-0.045	1.108	-6.482	1.00	0.00
ATOM	11	QG1	VALM	1	1.212	-0.646	-5.168	1.00	0.00
ATOM	12	QG2	VALM	1	-1.885	-0.299	-5.488	1.00	0.00
ATOM	13	CG1	VALM	1	0.907	-0.363	-5.235	1.00	0.00
ATOM	14	1HG1	VALM	1	0.712	-1.298	-5.793	1.00	0.00
ATOM	15	2HG1	VALM	1	1.907	-0.002	-5.541	1.00	0.00
ATOM	16	3HG1	VALM	1	1.019	-0.638	-4.169	1.00	0.00
ATOM	17	CG2	VALM	1	-1.531	-0.085	-5.477	1.00	0.00
ATOM	18	1HG2	VALM	1	-2.218	0.234	-4.671	1.00	0.00
ATOM	19	2HG2	VALM	1	-2.070	0.040	-6.434	1.00	0.00
ATOM	20	3HG2	VALM	1	-1.365	-1.172	-5.359	1.00	0.00
ATOM	21	QQG	VALM	1	-0.336	-0.473	-5.328	1.00	0.00
ATOM	22	C	VALM	1	0.711	1.675	-3.291	1.00	0.00
ATOM	23	O	VALM	1	1.706	2.379	-3.127	1.00	0.00
ATOM	24	N	PRO	2	0.348	0.651	-2.473	1.00	0.00
ATOM	25	CD	PRO	2	-0.824	-0.204	-2.635	1.00	0.00
ATOM	26	CA	PRO	2	1.146	0.306	-1.308	1.00	0.00
ATOM	27	HA	PRO	2	1.443	1.134	-0.833	1.00	0.00
ATOM	28	CB	PRO	2	0.227	-0.540	-0.441	1.00	0.00
ATOM	29	2HB	PRO	2	-0.176	0.043	0.386	1.00	0.00
ATOM	30	QB	PRO	2	-0.176	0.043	0.386	1.00	0.00
ATOM	31	CG	PRO	2	-0.883	-1.026	-1.359	1.00	0.00
ATOM	32	2HG	PRO	2	-1.854	-0.912	-0.876	1.00	0.00
ATOM	33	QG	PRO	2	-1.854	-0.912	-0.876	1.00	0.00
ATOM	34	2HD	PRO	2	-1.730	0.388	-2.769	1.00	0.00
ATOM	35	QD	PRO	2	-1.730	0.388	-2.769	1.00	0.00
ATOM	36	C	PRO	2	2.425	-0.426	-1.715	1.00	0.00
ATOM	37	O	PRO	2	2.483	-1.037	-2.782	1.00	0.00
ATOM	38	N	ILE	3	3.421	-0.340	-0.845	1.00	0.00
ATOM	39	H	ILE	3	3.366	0.159	0.020	1.00	0.00
ATOM	40	CA	ILE	3	4.697	-0.986	-1.101	1.00	0.00
ATOM	41	HA	ILE	3	4.746	-1.200	-2.169	1.00	0.00
ATOM	42	CB	ILE	3	5.853	-0.038	-0.776	1.00	0.00
ATOM	43	HB	ILE	3	6.526	-0.544	-0.086	1.00	0.00
ATOM	44	QG2	ILE	3	6.851	0.373	-2.331	1.00	0.00
ATOM	45	CG2	ILE	3	6.660	0.294	-2.033	1.00	0.00
ATOM	46	1HG2	ILE	3	7.068	1.301	-1.947	1.00	0.00
ATOM	47	2HG2	ILE	3	7.475	-0.422	-2.140	1.00	0.00

ATOM	48	3HG2	ILE	3	6.010	0.239	-2.907	1.00	0.00
ATOM	49	CG1	ILE	3	5.346	1.223	-0.071	1.00	0.00
ATOM	50	2HG1	ILE	3	4.426	1.564	-0.545	1.00	0.00
ATOM	51	QG1	ILE	3	4.426	1.564	-0.545	1.00	0.00
ATOM	52	QD1	ILE	3	5.032	0.892	1.767	1.00	0.00
ATOM	53	CD1	ILE	3	5.092	0.956	1.414	1.00	0.00
ATOM	54	1HD1	ILE	3	5.606	1.708	2.011	1.00	0.00
ATOM	55	2HD1	ILE	3	4.022	1.001	1.614	1.00	0.00
ATOM	56	3HD1	ILE	3	5.469	-0.034	1.674	1.00	0.00
ATOM	57	C	ILE	3	4.755	-2.310	-0.338	1.00	0.00
ATOM	58	O	ILE	3	5.279	-3.334	-0.801	1.00	0.00
ATOM	59	N	PIP	4	4.203	-2.288	0.862	1.00	0.00
ATOM	60	CE	PIP	4	3.590	-1.100	1.413	1.00	0.00
ATOM	61	CA	PIP	4	4.181	-3.453	1.734	1.00	0.00
ATOM	62	HA	PIP	4	5.167	-3.912	1.814	1.00	0.00
ATOM	63	CB	PIP	4	3.732	-3.084	3.160	1.00	0.00
ATOM	64	2HB	PIP	4	3.729	-3.979	3.783	1.00	0.00
ATOM	65	3HB	PIP	4	4.421	-2.352	3.581	1.00	0.00
ATOM	66	QB	PIP	4	4.075	-3.165	3.682	1.00	0.00
ATOM	67	CG	PIP	4	2.314	-2.486	3.114	1.00	0.00
ATOM	68	2HG	PIP	4	1.996	-2.225	4.124	1.00	0.00
ATOM	69	3HG	PIP	4	1.625	-3.217	2.694	1.00	0.00
ATOM	70	QG	PIP	4	1.810	-2.721	3.409	1.00	0.00
ATOM	71	CD	PIP	4	2.362	-1.499	2.254	1.00	0.00
ATOM	72	2HD	PIP	4	1.900	-0.604	2.669	1.00	0.00
ATOM	73	3HD	PIP	4	1.642	-2.019	1.622	1.00	0.00
ATOM	74	QD	PIP	4	1.771	-1.311	2.146	1.00	0.00
ATOM	75	1HE	PIP	4	4.309	-0.579	2.045	1.00	0.00
ATOM	76	2HE	PIP	4	3.276	-0.443	0.602	1.00	0.00
ATOM	77	QE	PIP	4	3.792	-0.511	1.323	1.00	0.00
ATOM	78	C	PIP	4	3.216	-4.531	1.217	1.00	0.00
ATOM	79	O	PIP	4	2.592	-4.238	0.197	1.00	0.00
ATOM	80	N	ALA	5	3.106	-5.686	1.857	1.00	0.00
ATOM	81	H	ALA	5	3.617	-5.917	2.685	1.00	0.00
ATOM	82	CA	ALA	5	2.207	-6.723	1.381	1.00	0.00
ATOM	83	HA	ALA	5	2.675	-7.198	0.519	1.00	0.00
ATOM	84	QB	ALA	5	1.967	-8.022	2.737	1.00	0.00
ATOM	85	CB	ALA	5	2.013	-7.773	2.477	1.00	0.00
ATOM	86	1HB	ALA	5	0.964	-8.067	2.517	1.00	0.00
ATOM	87	2HB	ALA	5	2.627	-8.646	2.256	1.00	0.00
ATOM	88	3HB	ALA	5	2.310	-7.353	3.438	1.00	0.00
ATOM	89	C	ALA	5	0.888	-6.086	0.943	1.00	0.00
ATOM	90	O	ALA	5	0.524	-5.012	1.418	1.00	0.00
ATOM	91	N	PRO	6	0.186	-6.794	0.018	1.00	0.00
ATOM	92	CD	PRO	6	0.585	-8.070	-0.569	1.00	0.00
ATOM	93	CA	PRO	6	-1.086	-6.310	-0.490	1.00	0.00
ATOM	94	HA	PRO	6	-1.039	-5.326	-0.664	1.00	0.00
ATOM	95	CB	PRO	6	-1.326	-7.097	-1.768	1.00	0.00
ATOM	96	2HB	PRO	6	-1.093	-6.495	-2.647	1.00	0.00
ATOM	97	QB	PRO	6	-1.093	-6.495	-2.647	1.00	0.00
ATOM	98	CG	PRO	6	-0.419	-8.313	-1.684	1.00	0.00
ATOM	99	2HG	PRO	6	0.096	-8.472	-2.632	1.00	0.00
ATOM	100	QG	PRO	6	0.096	-8.472	-2.632	1.00	0.00
ATOM	101	2HD	PRO	6	1.604	-8.029	-0.954	1.00	0.00
ATOM	102	QD	PRO	6	1.604	-8.029	-0.954	1.00	0.00
ATOM	103	C	PRO	6	-2.197	-6.498	0.545	1.00	0.00
ATOM	104	O	PRO	6	-2.622	-7.609	0.883	1.00	0.00
ATOM	105	N	THRM	7	-2.675	-5.380	1.059	1.00	0.00
ATOM	106	QB	THRM	7	-4.015	-5.575	2.310	1.00	0.00

ATOM	107	CN	THRM	7	-3.751	-5.536	2.063	1.00	0.00
ATOM	108	1HNB	THRM	7	-3.965	-6.596	2.205	1.00	0.00
ATOM	109	2HNB	THRM	7	-3.431	-5.101	3.009	1.00	0.00
ATOM	110	3HNB	THRM	7	-4.650	-5.027	1.716	1.00	0.00
ATOM	111	CA	THRM	7	-2.173	-4.069	0.661	1.00	0.00
ATOM	112	HA	THRM	7	-1.081	-4.145	0.507	1.00	0.00
ATOM	113	CB	THRM	7	-2.838	-3.608	-0.680	1.00	0.00
ATOM	114	HB	THRM	7	-2.046	-3.529	-1.455	1.00	0.00
ATOM	115	QG2	THRM	7	-4.272	-4.749	-1.377	1.00	0.00
ATOM	116	OG1	THRM	7	-3.448	-2.333	-0.522	1.00	0.00
ATOM	117	1HG	THRM	7	-3.558	-1.978	-1.409	1.00	0.00
ATOM	118	CG2	THRM	7	-3.967	-4.509	-1.229	1.00	0.00
ATOM	119	1HG2	THRM	7	-4.916	-4.367	-0.681	1.00	0.00
ATOM	120	2HG2	THRM	7	-4.197	-4.298	-2.290	1.00	0.00
ATOM	121	3HG2	THRM	7	-3.704	-5.581	-1.160	1.00	0.00
ATOM	122	C	THRM	7	-2.404	-3.048	1.749	1.00	0.00
ATOM	123	O	THRM	7	-3.060	-3.358	2.743	1.00	0.00
ATOM	124	N	VAL	8	-1.867	-1.853	1.548	1.00	0.00
ATOM	125	H	VAL	8	-1.335	-1.608	0.738	1.00	0.00
ATOM	126	CA	VAL	8	-2.021	-0.789	2.526	1.00	0.00
ATOM	127	HA	VAL	8	-2.948	-0.973	3.069	1.00	0.00
ATOM	128	CB	VAL	8	-0.867	-0.828	3.529	1.00	0.00
ATOM	129	HB	VAL	8	-0.202	-1.642	3.243	1.00	0.00
ATOM	130	QG1	VAL	8	0.128	0.781	3.482	1.00	0.00
ATOM	131	QG2	VAL	8	-1.501	-1.183	5.278	1.00	0.00
ATOM	132	CG1	VAL	8	-0.062	0.472	3.491	1.00	0.00
ATOM	133	1HG1	VAL	8	0.665	0.474	4.303	1.00	0.00
ATOM	134	2HG1	VAL	8	0.457	0.550	2.536	1.00	0.00
ATOM	135	3HG1	VAL	8	-0.738	1.321	3.607	1.00	0.00
ATOM	136	CG2	VAL	8	-1.380	-1.115	4.942	1.00	0.00
ATOM	137	1HG2	VAL	8	-0.697	-1.801	5.444	1.00	0.00
ATOM	138	2HG2	VAL	8	-1.436	-0.183	5.504	1.00	0.00
ATOM	139	3HG2	VAL	8	-2.371	-1.565	4.885	1.00	0.00
ATOM	140	QQG	VAL	8	-0.687	-0.201	4.380	1.00	0.00
ATOM	141	C	VAL	8	-2.136	0.553	1.799	1.00	0.00
ATOM	142	O	VAL	8	-1.823	0.705	0.612	1.00	0.00
ATOM	143	N	THRM	9	-2.597	1.548	2.533	1.00	0.00
ATOM	144	QB	THRM	9	-3.012	1.136	4.282	1.00	0.00
ATOM	145	CN	THRM	9	-2.931	1.218	3.937	1.00	0.00
ATOM	146	1HNB	THRM	9	-2.726	0.163	4.121	1.00	0.00
ATOM	147	2HNB	THRM	9	-2.324	1.827	4.607	1.00	0.00
ATOM	148	3HNB	THRM	9	-3.987	1.419	4.117	1.00	0.00
ATOM	149	CA	THRM	9	-2.768	2.894	1.994	1.00	0.00
ATOM	150	HA	THRM	9	-2.603	2.854	0.901	1.00	0.00
ATOM	151	CB	THRM	9	-4.220	3.414	2.265	1.00	0.00
ATOM	152	HB	THRM	9	-4.324	4.418	1.798	1.00	0.00
ATOM	153	QG2	THRM	9	-5.687	2.283	1.624	1.00	0.00
ATOM	154	OG1	THRM	9	-4.451	3.538	3.662	1.00	0.00
ATOM	155	1HG	THRM	9	-4.372	4.475	3.864	1.00	0.00
ATOM	156	CG2	THRM	9	-5.374	2.522	1.760	1.00	0.00
ATOM	157	1HG2	THRM	9	-6.121	2.322	2.549	1.00	0.00
ATOM	158	2HG2	THRM	9	-5.933	2.986	0.926	1.00	0.00
ATOM	159	3HG2	THRM	9	-5.007	1.542	1.398	1.00	0.00
ATOM	160	C	THRM	9	-1.745	3.842	2.570	1.00	0.00
ATOM	161	O	THRM	9	-2.027	4.647	3.435	1.00	0.00
ATOM	162	N	VALM	10	-0.523	3.744	2.078	1.00	0.00
ATOM	163	QB	VALM	10	-0.278	2.465	0.773	1.00	0.00
ATOM	164	CN	VALM	10	-0.326	2.717	1.030	1.00	0.00
ATOM	165	1HNB	VALM	10	-1.123	2.795	0.291	1.00	0.00

ATOM	166	2HNB	VALM	10	0.637	2.873	0.545	1.00	0.00
ATOM	167	3HNB	VALM	10	-0.349	1.726	1.484	1.00	0.00
ATOM	168	CA	VALM	10	0.568	4.596	2.541	1.00	0.00
ATOM	169	HA	VALM	10	0.205	5.638	2.601	1.00	0.00
ATOM	170	CB	VALM	10	1.046	4.127	3.972	1.00	0.00
ATOM	171	HB	VALM	10	1.583	3.163	3.839	1.00	0.00
ATOM	172	QG1	VALM	10	2.298	5.326	4.920	1.00	0.00
ATOM	173	QG2	VALM	10	-0.419	3.794	5.234	1.00	0.00
ATOM	174	CG1	VALM	10	2.024	5.075	4.719	1.00	0.00
ATOM	175	1HG1	VALM	10	1.524	5.986	5.099	1.00	0.00
ATOM	176	2HG1	VALM	10	2.508	4.583	5.584	1.00	0.00
ATOM	177	3HG1	VALM	10	2.862	5.409	4.077	1.00	0.00
ATOM	178	CG2	VALM	10	-0.112	3.870	4.967	1.00	0.00
ATOM	179	1HG2	VALM	10	-0.714	4.778	5.154	1.00	0.00
ATOM	180	2HG2	VALM	10	-0.804	3.089	4.601	1.00	0.00
ATOM	181	3HG2	VALM	10	0.260	3.514	5.947	1.00	0.00
ATOM	182	QQG	VALM	10	0.939	4.560	5.077	1.00	0.00
ATOM	183	C	VALM	10	1.717	4.584	1.561	1.00	0.00
ATOM	184	O	VALM	10	2.808	4.069	1.836	1.00	0.00
ATOM	185	N	ILEM	11	1.487	5.157	0.395	1.00	0.00
ATOM	186	QB	ILEM	11	-0.196	5.873	0.163	1.00	0.00
ATOM	187	CN	ILEM	11	0.136	5.732	0.208	1.00	0.00
ATOM	188	1HNB	ILEM	11	-0.455	5.571	1.110	1.00	0.00
ATOM	189	2HNB	ILEM	11	0.219	6.801	0.014	1.00	0.00
ATOM	190	3HNB	ILEM	11	-0.352	5.247	-0.636	1.00	0.00
ATOM	191	CA	ILEM	11	2.505	5.220	-0.650	1.00	0.00
ATOM	192	HA	ILEM	11	2.034	5.654	-1.551	1.00	0.00
ATOM	193	CB	ILEM	11	3.712	6.152	-0.223	1.00	0.00
ATOM	194	HB	ILEM	11	4.640	5.567	-0.395	1.00	0.00
ATOM	195	QG2	ILEM	11	3.838	7.808	-1.308	1.00	0.00
ATOM	196	CG2	ILEM	11	3.808	7.450	-1.081	1.00	0.00
ATOM	197	1HG2	ILEM	11	3.820	8.365	-0.462	1.00	0.00
ATOM	198	2HG2	ILEM	11	4.736	7.511	-1.677	1.00	0.00
ATOM	199	3HG2	ILEM	11	2.959	7.548	-1.785	1.00	0.00
ATOM	200	CG1	ILEM	11	3.714	6.565	1.284	1.00	0.00
ATOM	201	2HG1	ILEM	11	4.541	7.276	1.471	1.00	0.00
ATOM	202	QG1	ILEM	11	4.541	7.276	1.471	1.00	0.00
ATOM	203	QD1	ILEM	11	2.095	7.444	1.933	1.00	0.00
ATOM	204	CD1	ILEM	11	2.436	7.263	1.792	1.00	0.00
ATOM	205	1HD1	ILEM	11	1.936	6.662	2.573	1.00	0.00
ATOM	206	2HD1	ILEM	11	2.658	8.252	2.236	1.00	0.00
ATOM	207	3HD1	ILEM	11	1.692	7.419	0.991	1.00	0.00
ATOM	208	C	ILEM	11	2.972	3.837	-1.035	1.00	0.00
ATOM	209	O	ILEM	11	2.720	2.841	-0.341	1.00	0.00
ATOM	210	N	PIPO	12	3.665	3.751	-2.155	1.00	0.00
ATOM	211	CE	PIPO	12	4.181	2.495	-2.656	1.00	0.00
ATOM	212	CA	PIPO	12	3.982	4.914	-2.970	1.00	0.00
ATOM	213	HA	PIPO	12	4.393	5.725	-2.370	1.00	0.00
ATOM	214	CB	PIPO	12	5.020	4.580	-4.058	1.00	0.00
ATOM	215	2HB	PIPO	12	5.230	5.472	-4.646	1.00	0.00
ATOM	216	3HB	PIPO	12	5.938	4.229	-3.589	1.00	0.00
ATOM	217	QB	PIPO	12	5.584	4.851	-4.117	1.00	0.00
ATOM	218	CG	PIPO	12	4.462	3.479	-4.979	1.00	0.00
ATOM	219	2HG	PIPO	12	5.196	3.242	-5.749	1.00	0.00
ATOM	220	3HG	PIPO	12	3.543	3.829	-5.450	1.00	0.00
ATOM	221	QG	PIPO	12	4.369	3.536	-5.599	1.00	0.00
ATOM	222	CD	PIPO	12	4.112	2.489	-4.195	1.00	0.00
ATOM	223	2HD	PIPO	12	4.501	1.544	-4.573	1.00	0.00
ATOM	224	3HD	PIPO	12	3.076	2.609	-4.513	1.00	0.00



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ATOM	225	OD	PIPO	12	3.789	2.076	-4.543	1.00	0.00
ATOM	226	1HE	PIPO	12	5.217	2.376	-2.340	1.00	0.00
ATOM	227	2HE	PIPO	12	3.584	1.673	-2.263	1.00	0.00
ATOM	228	QE	PIPO	12	4.400	2.025	-2.302	1.00	0.00
ATOM	229	C	PIPO	12	2.735	5.463	-3.683	1.00	0.00
ATOM	230	O	PIPO	12	2.577	6.689	-3.712	1.00	0.00
ATOM	231	O1'	PHEO	13	1.877	4.633	-4.248	1.00	0.00
ATOM	232	CA	PHEO	13	0.466	4.970	-4.409	1.00	0.00
ATOM	233	HA	PHEO	13	0.365	5.952	-4.909	1.00	0.00
ATOM	234	CB	PHEO	13	-0.206	5.017	-3.003	1.00	0.00
ATOM	235	2HB	PHEO	13	0.540	4.747	-2.230	1.00	0.00
ATOM	236	QB	PHEO	13	0.540	4.747	-2.230	1.00	0.00
ATOM	237	QD	PHEO	13	-0.951	6.493	-2.580	1.00	0.00
ATOM	238	QE	PHEO	13	-2.088	8.604	-2.025	1.00	0.00
ATOM	239	QR	PHEO	13	-1.748	7.972	-2.191	1.00	0.00
ATOM	240	CG	PHEO	13	-0.861	6.348	-2.602	1.00	0.00
ATOM	241	CD1	PHEO	13	-2.039	6.339	-1.846	1.00	0.00
ATOM	242	1HD	PHEO	13	-2.475	5.400	-1.532	1.00	0.00
ATOM	243	CE1	PHEO	13	-2.687	7.531	-1.543	1.00	0.00
ATOM	244	1HE	PHEO	13	-3.612	7.511	-0.985	1.00	0.00
ATOM	245	CZ	PHEO	13	-2.154	8.742	-1.979	1.00	0.00
ATOM	246	HZ	PHEO	13	-2.662	9.665	-1.747	1.00	0.00
ATOM	247	CE2	PHEO	13	-0.974	8.759	-2.721	1.00	0.00
ATOM	248	2HE	PHEO	13	-0.564	9.698	-3.065	1.00	0.00
ATOM	249	CD2	PHEO	13	-0.329	7.566	-3.035	1.00	0.00
ATOM	250	2HD	PHEO	13	0.573	7.585	-3.629	1.00	0.00
ATOM	251	C	PHEO	13	-0.249	3.928	-5.235	1.00	0.00
ATOM	252	O	PHEO	13	-1.445	4.077	-5.612	1.00	0.00
TER									
ENDMDL									
MODEL 18									
ATOM	1	N	VALM	1	-0.682	3.445	-4.408	1.00	0.00
ATOM	2	QB	VALM	1	-2.411	4.081	-4.336	1.00	0.00
ATOM	3	CN	VALM	1	-2.070	3.955	-4.350	1.00	0.00
ATOM	4	1HNB	VALM	1	-2.747	3.217	-4.779	1.00	0.00
ATOM	5	2HNB	VALM	1	-2.346	4.141	-3.312	1.00	0.00
ATOM	6	3HNB	VALM	1	-2.140	4.884	-4.916	1.00	0.00
ATOM	7	CA	VALM	1	-0.378	2.019	-4.332	1.00	0.00
ATOM	8	HA	VALM	1	-1.311	1.466	-4.121	1.00	0.00
ATOM	9	CB	VALM	1	0.222	1.525	-5.709	1.00	0.00
ATOM	10	HB	VALM	1	1.031	2.234	-5.987	1.00	0.00
ATOM	11	QG1	VALM	1	1.023	-0.281	-5.724	1.00	0.00
ATOM	12	QG2	VALM	1	-1.077	1.514	-7.179	1.00	0.00
ATOM	13	CG1	VALM	1	0.858	0.108	-5.715	1.00	0.00
ATOM	14	1HG1	VALM	1	1.686	0.012	-4.988	1.00	0.00
ATOM	15	2HG1	VALM	1	0.122	-0.684	-5.478	1.00	0.00
ATOM	16	3HG1	VALM	1	1.262	-0.170	-6.707	1.00	0.00
ATOM	17	CG2	VALM	1	-0.799	1.519	-6.872	1.00	0.00
ATOM	18	1HG2	VALM	1	-0.436	2.082	-7.752	1.00	0.00
ATOM	19	2HG2	VALM	1	-1.029	0.494	-7.213	1.00	0.00
ATOM	20	3HG2	VALM	1	-1.766	1.967	-6.572	1.00	0.00
ATOM	21	QQG	VALM	1	-0.027	0.617	-6.452	1.00	0.00
ATOM	22	C	VALM	1	0.574	1.728	-3.196	1.00	0.00
ATOM	23	O	VALM	1	1.556	2.450	-3.030	1.00	0.00
ATOM	24	N	PRO	2	0.265	0.657	-2.420	1.00	0.00
ATOM	25	CD	PRO	2	-0.890	-0.221	-2.587	1.00	0.00
ATOM	26	CA	PRO	2	1.105	0.279	-1.296	1.00	0.00
ATOM	27	HA	PRO	2	1.397	1.092	-0.792	1.00	0.00
ATOM	28	CB	PRO	2	0.238	-0.633	-0.443	1.00	0.00

ATOM	29	2HB	PRO	2	-0.154	-0.100	0.423	1.00	0.00
ATOM	30	QB	PRO	2	-0.154	-0.100	0.423	1.00	0.00
ATOM	31	CG	PRO	2	-0.888	-1.103	-1.350	1.00	0.00
ATOM	32	2HG	PRO	2	-1.846	-1.038	-0.834	1.00	0.00
ATOM	33	QG	PRO	2	-1.846	-1.038	-0.834	1.00	0.00
ATOM	34	2HD	PRO	2	-1.814	0.352	-2.664	1.00	0.00
ATOM	35	QD	PRO	2	-1.814	0.352	-2.664	1.00	0.00
ATOM	36	C	PRO	2	2.391	-0.399	-1.777	1.00	0.00
ATOM	37	O	PRO	2	2.450	-0.900	-2.898	1.00	0.00
ATOM	38	N	ILE	3	3.388	-0.390	-0.905	1.00	0.00
ATOM	39	H	ILE	3	3.331	0.020	0.005	1.00	0.00
ATOM	40	CA	ILE	3	4.669	-0.997	-1.227	1.00	0.00
ATOM	41	HA	ILE	3	4.674	-1.200	-2.297	1.00	0.00
ATOM	42	CB	ILE	3	5.810	-0.018	-0.946	1.00	0.00
ATOM	43	HB	ILE	3	6.511	-0.499	-0.263	1.00	0.00
ATOM	44	QG2	ILE	3	6.763	0.385	-2.532	1.00	0.00
ATOM	45	CG2	ILE	3	6.581	0.307	-2.227	1.00	0.00
ATOM	46	1HG2	ILE	3	7.436	-0.362	-2.318	1.00	0.00
ATOM	47	2HG2	ILE	3	5.925	0.177	-3.089	1.00	0.00
ATOM	48	3HG2	ILE	3	6.929	1.339	-2.190	1.00	0.00
ATOM	49	CG1	ILE	3	5.294	1.243	-0.251	1.00	0.00
ATOM	50	2HG1	ILE	3	4.337	1.534	-0.683	1.00	0.00
ATOM	51	QG1	ILE	3	4.337	1.534	-0.683	1.00	0.00
ATOM	52	QD1	ILE	3	5.095	0.959	1.610	1.00	0.00
ATOM	53	CD1	ILE	3	5.133	1.014	1.253	1.00	0.00
ATOM	54	1HD1	ILE	3	4.073	0.992	1.506	1.00	0.00
ATOM	55	2HD1	ILE	3	5.591	0.063	1.526	1.00	0.00
ATOM	56	3HD1	ILE	3	5.621	1.821	1.797	1.00	0.00
ATOM	57	C	ILE	3	4.800	-2.326	-0.480	1.00	0.00
ATOM	58	O	ILE	3	5.295	-3.342	-0.991	1.00	0.00
ATOM	59	N	PIP	4	4.345	-2.317	0.759	1.00	0.00
ATOM	60	CE	PIP	4	3.765	-1.140	1.367	1.00	0.00
ATOM	61	CA	PIP	4	4.404	-3.488	1.622	1.00	0.00
ATOM	62	HA	PIP	4	5.397	-3.938	1.620	1.00	0.00
ATOM	63	CB	PIP	4	4.066	-3.133	3.082	1.00	0.00
ATOM	64	2HB	PIP	4	4.120	-4.032	3.695	1.00	0.00
ATOM	65	3HB	PIP	4	4.779	-2.398	3.452	1.00	0.00
ATOM	66	QB	PIP	4	4.449	-3.215	3.574	1.00	0.00
ATOM	67	CG	PIP	4	2.642	-2.550	3.152	1.00	0.00
ATOM	68	2HG	PIP	4	2.403	-2.300	4.186	1.00	0.00
ATOM	69	3HG	PIP	4	1.928	-3.286	2.783	1.00	0.00
ATOM	70	QG	PIP	4	2.166	-2.793	3.485	1.00	0.00
ATOM	71	CD	PIP	4	2.613	-1.556	2.299	1.00	0.00
ATOM	72	2HD	PIP	4	2.176	-0.669	2.757	1.00	0.00
ATOM	73	3HD	PIP	4	1.850	-2.080	1.722	1.00	0.00
ATOM	74	QD	PIP	4	2.013	-1.374	2.240	1.00	0.00
ATOM	75	1HE	PIP	4	4.527	-0.615	1.943	1.00	0.00
ATOM	76	2HE	PIP	4	3.383	-0.480	0.588	1.00	0.00
ATOM	77	QE	PIP	4	3.955	-0.548	1.266	1.00	0.00
ATOM	78	C	PIP	4	3.411	-4.572	1.175	1.00	0.00
ATOM	79	O	PIP	4	2.762	-4.310	0.163	1.00	0.00
ATOM	80	N	ALA	5	3.306	-5.700	1.862	1.00	0.00
ATOM	81	H	ALA	5	3.839	-5.906	2.683	1.00	0.00
ATOM	82	CA	ALA	5	2.381	-6.744	1.452	1.00	0.00
ATOM	83	HA	ALA	5	2.799	-7.230	0.571	1.00	0.00
ATOM	84	QB	ALA	5	2.221	-8.025	2.837	1.00	0.00
ATOM	85	CB	ALA	5	2.252	-7.779	2.571	1.00	0.00
ATOM	86	1HB	ALA	5	2.781	-7.426	3.456	1.00	0.00
ATOM	87	2HB	ALA	5	1.199	-7.925	2.812	1.00	0.00

ATOM	88	3HB	ALA	5	2.684	-8.725	2.242	1.00	0.00
ATOM	89	C	ALA	5	1.037	-6.112	1.084	1.00	0.00
ATOM	90	O	ALA	5	0.700	-5.033	1.569	1.00	0.00
ATOM	91	N	PRO	6	0.286	-6.830	0.206	1.00	0.00
ATOM	92	CD	PRO	6	0.652	-8.111	-0.389	1.00	0.00
ATOM	93	CA	PRO	6	-1.014	-6.351	-0.232	1.00	0.00
ATOM	94	HA	PRO	6	-0.977	-5.369	-0.418	1.00	0.00
ATOM	95	CB	PRO	6	-1.325	-7.150	-1.487	1.00	0.00
ATOM	96	2HB	PRO	6	-1.143	-6.557	-2.383	1.00	0.00
ATOM	97	QB	PRO	6	-1.143	-6.557	-2.383	1.00	0.00
ATOM	98	CG	PRO	6	-0.412	-8.365	-1.443	1.00	0.00
ATOM	99	2HG	PRO	6	0.048	-8.532	-2.418	1.00	0.00
ATOM	100	QG	PRO	6	0.048	-8.532	-2.418	1.00	0.00
ATOM	101	2HD	PRO	6	1.648	-8.072	-0.832	1.00	0.00
ATOM	102	QD	PRO	6	1.648	-8.072	-0.832	1.00	0.00
ATOM	103	C	PRO	6	-2.064	-6.530	0.866	1.00	0.00
ATOM	104	O	PRO	6	-2.354	-7.632	1.347	1.00	0.00
ATOM	105	N	THRM	7	-2.644	-5.416	1.270	1.00	0.00
ATOM	106	QB	THRM	7	-3.915	-5.600	2.594	1.00	0.00
ATOM	107	CN	THRM	7	-3.664	-5.563	2.333	1.00	0.00
ATOM	108	1HNB	THRM	7	-3.757	-6.615	2.604	1.00	0.00
ATOM	109	2HNB	THRM	7	-3.363	-4.988	3.208	1.00	0.00
ATOM	110	3HNB	THRM	7	-4.624	-5.195	1.970	1.00	0.00
ATOM	111	CA	THRM	7	-2.301	-4.115	0.703	1.00	0.00
ATOM	112	HA	THRM	7	-1.204	-4.069	0.574	1.00	0.00
ATOM	113	CB	THRM	7	-2.980	-3.928	-0.696	1.00	0.00
ATOM	114	HB	THRM	7	-3.498	-2.945	-0.704	1.00	0.00
ATOM	115	QG2	THRM	7	-1.795	-4.010	-2.255	1.00	0.00
ATOM	116	OG1	THRM	7	-3.942	-4.950	-0.922	1.00	0.00
ATOM	117	1HG	THRM	7	-3.442	-5.757	-1.079	1.00	0.00
ATOM	118	CG2	THRM	7	-2.048	-3.996	-1.924	1.00	0.00
ATOM	119	1HG2	THRM	7	-2.173	-3.123	-2.590	1.00	0.00
ATOM	120	2HG2	THRM	7	-0.977	-4.006	-1.643	1.00	0.00
ATOM	121	3HG2	THRM	7	-2.233	-4.901	-2.532	1.00	0.00
ATOM	122	C	THRM	7	-2.691	-2.996	1.639	1.00	0.00
ATOM	123	O	THRM	7	-3.547	-3.197	2.500	1.00	0.00
ATOM	124	N	VAL	8	-2.063	-1.843	1.460	1.00	0.00
ATOM	125	H	VAL	8	-1.369	-1.688	0.758	1.00	0.00
ATOM	126	CA	VAL	8	-2.355	-0.694	2.300	1.00	0.00
ATOM	127	HA	VAL	8	-3.366	-0.818	2.687	1.00	0.00
ATOM	128	CB	VAL	8	-1.394	-0.658	3.490	1.00	0.00
ATOM	129	HB	VAL	8	-1.170	0.386	3.709	1.00	0.00
ATOM	130	QG1	VAL	8	-2.191	-1.418	5.030	1.00	0.00
ATOM	131	QG2	VAL	8	0.236	-1.526	3.072	1.00	0.00
ATOM	132	CG1	VAL	8	-2.038	-1.273	4.734	1.00	0.00
ATOM	133	1HG1	VAL	8	-1.370	-2.023	5.156	1.00	0.00
ATOM	134	2HG1	VAL	8	-2.219	-0.491	5.473	1.00	0.00
ATOM	135	3HG1	VAL	8	-2.984	-1.740	4.460	1.00	0.00
ATOM	136	CG2	VAL	8	-0.076	-1.360	3.152	1.00	0.00
ATOM	137	1HG2	VAL	8	0.298	-0.990	2.197	1.00	0.00
ATOM	138	2HG2	VAL	8	0.655	-1.155	3.933	1.00	0.00
ATOM	139	3HG2	VAL	8	-0.244	-2.434	3.084	1.00	0.00
ATOM	140	QQG	VAL	8	-0.977	-1.472	4.051	1.00	0.00
ATOM	141	C	VAL	8	-2.303	0.578	1.452	1.00	0.00
ATOM	142	O	VAL	8	-1.896	0.594	0.284	1.00	0.00
ATOM	143	N	THRM	9	-2.729	1.671	2.059	1.00	0.00
ATOM	144	QB	THRM	9	-3.299	1.458	3.799	1.00	0.00
ATOM	145	CN	THRM	9	-3.187	1.500	3.456	1.00	0.00
ATOM	146	1HNB	THRM	9	-3.086	0.455	3.747	1.00	0.00

ATOM	147	2HNB	THRM	9	-2.580	2.120	4.116	1.00	0.00
ATOM	148	3HNB	THRM	9	-4.231	1.800	3.535	1.00	0.00
ATOM	149	CA	THRM	9	-2.746	2.970	1.392	1.00	0.00
ATOM	150	HA	THRM	9	-2.410	2.830	0.348	1.00	0.00
ATOM	151	CB	THRM	9	-4.197	3.561	1.377	1.00	0.00
ATOM	152	HB	THRM	9	-4.172	4.533	0.839	1.00	0.00
ATOM	153	QG2	THRM	9	-5.586	2.443	0.563	1.00	0.00
ATOM	154	OG1	THRM	9	-4.655	3.788	2.703	1.00	0.00
ATOM	155	1HG	THRM	9	-3.993	4.346	3.123	1.00	0.00
ATOM	156	CG2	THRM	9	-5.290	2.678	0.736	1.00	0.00
ATOM	157	1HG2	THRM	9	-6.307	3.013	1.008	1.00	0.00
ATOM	158	2HG2	THRM	9	-5.253	2.696	-0.368	1.00	0.00
ATOM	159	3HG2	THRM	9	-5.198	1.621	1.049	1.00	0.00
ATOM	160	C	THRM	9	-1.785	3.929	2.050	1.00	0.00
ATOM	161	O	THRM	9	-2.169	4.902	2.668	1.00	0.00
ATOM	162	N	VALM	10	-0.503	3.648	1.916	1.00	0.00
ATOM	163	QB	VALM	10	-0.105	2.131	0.946	1.00	0.00
ATOM	164	CN	VALM	10	-0.184	2.430	1.138	1.00	0.00
ATOM	165	1HNB	VALM	10	-0.440	1.547	1.723	1.00	0.00
ATOM	166	2HNB	VALM	10	-0.756	2.430	0.210	1.00	0.00
ATOM	167	3HNB	VALM	10	0.882	2.415	0.906	1.00	0.00
ATOM	168	CA	VALM	10	0.539	4.488	2.499	1.00	0.00
ATOM	169	HA	VALM	10	0.188	5.536	2.509	1.00	0.00
ATOM	170	CB	VALM	10	0.835	4.023	3.981	1.00	0.00
ATOM	171	HB	VALM	10	1.737	3.376	3.946	1.00	0.00
ATOM	172	QG1	VALM	10	1.212	5.451	5.294	1.00	0.00
ATOM	173	QG2	VALM	10	-0.608	2.968	4.790	1.00	0.00
ATOM	174	CG1	VALM	10	1.138	5.148	5.008	1.00	0.00
ATOM	175	1HG1	VALM	10	2.027	5.747	4.732	1.00	0.00
ATOM	176	2HG1	VALM	10	0.292	5.852	5.122	1.00	0.00
ATOM	177	3HG1	VALM	10	1.317	4.753	6.027	1.00	0.00
ATOM	178	CG2	VALM	10	-0.302	3.186	4.614	1.00	0.00
ATOM	179	1HG2	VALM	10	-0.444	2.216	4.104	1.00	0.00
ATOM	180	2HG2	VALM	10	-0.107	2.968	5.681	1.00	0.00
ATOM	181	3HG2	VALM	10	-1.271	3.720	4.584	1.00	0.00
ATOM	182	QQG	VALM	10	0.302	4.209	5.042	1.00	0.00
ATOM	183	C	VALM	10	1.796	4.450	1.663	1.00	0.00
ATOM	184	O	VALM	10	2.842	3.934	2.076	1.00	0.00
ATOM	185	N	ILEM	11	1.711	5.000	0.467	1.00	0.00
ATOM	186	QB	ILEM	11	0.073	5.720	0.022	1.00	0.00
ATOM	187	CN	ILEM	11	0.397	5.577	0.109	1.00	0.00
ATOM	188	1HNB	ILEM	11	-0.299	5.439	0.938	1.00	0.00
ATOM	189	2HNB	ILEM	11	0.510	6.643	-0.095	1.00	0.00
ATOM	190	3HNB	ILEM	11	0.009	5.078	-0.777	1.00	0.00
ATOM	191	CA	ILEM	11	2.848	5.036	-0.450	1.00	0.00
ATOM	192	HA	ILEM	11	2.556	5.657	-1.318	1.00	0.00
ATOM	193	CB	ILEM	11	4.116	5.695	0.230	1.00	0.00
ATOM	194	HB	ILEM	11	4.086	5.407	1.303	1.00	0.00
ATOM	195	QG2	ILEM	11	5.821	5.021	-0.529	1.00	0.00
ATOM	196	CG2	ILEM	11	5.460	5.168	-0.361	1.00	0.00
ATOM	197	1HG2	ILEM	11	5.324	4.259	-0.973	1.00	0.00
ATOM	198	2HG2	ILEM	11	5.947	5.887	-1.043	1.00	0.00
ATOM	199	3HG2	ILEM	11	6.192	4.917	0.430	1.00	0.00
ATOM	200	CG1	ILEM	11	4.144	7.256	0.184	1.00	0.00
ATOM	201	2HG1	ILEM	11	5.174	7.613	0.374	1.00	0.00
ATOM	202	QG1	ILEM	11	5.174	7.613	0.374	1.00	0.00
ATOM	203	QD1	ILEM	11	3.604	8.063	-1.512	1.00	0.00
ATOM	204	CD1	ILEM	11	3.715	7.897	-1.152	1.00	0.00
ATOM	205	1HD1	ILEM	11	4.254	7.444	-2.004	1.00	0.00

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ATOM	206	2HD1	ILEM	11	2.634	7.763	-1.343	1.00	0.00
ATOM	207	3HD1	ILEM	11	3.925	8.982	-1.187	1.00	0.00
ATOM	208	C	ILEM	11	3.150	3.660	-0.991	1.00	0.00
ATOM	209	O	ILEM	11	2.873	2.630	-0.359	1.00	0.00
ATOM	210	N	PIPO	12	3.729	3.619	-2.176	1.00	0.00
ATOM	211	CE	PIPO	12	4.082	2.376	-2.828	1.00	0.00
ATOM	212	CA	PIPO	12	4.074	4.820	-2.920	1.00	0.00
ATOM	213	HA	PIPO	12	4.610	5.538	-2.298	1.00	0.00
ATOM	214	CB	PIPO	12	4.976	4.502	-4.128	1.00	0.00
ATOM	215	2HB	PIPO	12	5.212	5.424	-4.659	1.00	0.00
ATOM	216	3HB	PIPO	12	5.897	4.036	-3.781	1.00	0.00
ATOM	217	QB	PIPO	12	5.554	4.730	-4.220	1.00	0.00
ATOM	218	CG	PIPO	12	4.240	3.539	-5.078	1.00	0.00
ATOM	219	2HG	PIPO	12	4.877	3.313	-5.933	1.00	0.00
ATOM	220	3HG	PIPO	12	3.318	4.004	-5.426	1.00	0.00
ATOM	221	QG	PIPO	12	4.097	3.659	-5.679	1.00	0.00
ATOM	222	CD	PIPO	12	3.874	2.514	-4.347	1.00	0.00
ATOM	223	2HD	PIPO	12	4.140	1.578	-4.837	1.00	0.00
ATOM	224	3HD	PIPO	12	2.829	2.746	-4.551	1.00	0.00
ATOM	225	QD	PIPO	12	3.484	2.162	-4.694	1.00	0.00
ATOM	226	1HE	PIPO	12	5.127	2.143	-2.624	1.00	0.00
ATOM	227	2HE	PIPO	12	3.450	1.574	-2.446	1.00	0.00
ATOM	228	QE	PIPO	12	4.289	1.858	-2.535	1.00	0.00
ATOM	229	C	PIPO	12	2.823	5.533	-3.461	1.00	0.00
ATOM	230	O	PIPO	12	2.631	6.707	-3.122	1.00	0.00
ATOM	231	O1'	PHEO	13	1.996	4.894	-4.267	1.00	0.00
ATOM	232	CA	PHEO	13	0.593	5.277	-4.399	1.00	0.00
ATOM	233	HA	PHEO	13	0.503	6.172	-5.043	1.00	0.00
ATOM	234	CB	PHEO	13	0.018	5.581	-2.982	1.00	0.00
ATOM	235	2HB	PHEO	13	0.853	5.758	-2.277	1.00	0.00
ATOM	236	QB	PHEO	13	0.853	5.758	-2.277	1.00	0.00
ATOM	237	QD	PHEO	13	-1.086	6.878	-2.889	1.00	0.00
ATOM	238	QE	PHEO	13	-2.734	8.705	-2.801	1.00	0.00
ATOM	239	QR	PHEO	13	-2.241	8.158	-2.827	1.00	0.00
ATOM	240	CG	PHEO	13	-0.961	6.760	-2.881	1.00	0.00
ATOM	241	CD1	PHEO	13	-2.099	6.647	-2.072	1.00	0.00
ATOM	242	1HD	PHEO	13	-2.277	5.741	-1.508	1.00	0.00
ATOM	243	CE1	PHEO	13	-3.035	7.674	-2.031	1.00	0.00
ATOM	244	1HE	PHEO	13	-3.925	7.565	-1.428	1.00	0.00
ATOM	245	CZ	PHEO	13	-2.834	8.828	-2.786	1.00	0.00
ATOM	246	HZ	PHEO	13	-3.565	9.622	-2.757	1.00	0.00
ATOM	247	CE2	PHEO	13	-1.697	8.953	-3.584	1.00	0.00
ATOM	248	2HE	PHEO	13	-1.544	9.845	-4.173	1.00	0.00
ATOM	249	CD2	PHEO	13	-0.764	7.921	-3.633	1.00	0.00
ATOM	250	2HD	PHEO	13	0.104	8.015	-4.270	1.00	0.00
ATOM	251	C	PHEO	13	-0.219	4.157	-5.003	1.00	0.00
ATOM	252	O	PHEO	13	-0.309	3.994	-6.253	1.00	0.00
TER									
ENDMDL									
MODEL 19									
ATOM	1	N	VALM	1	0.132	3.181	-5.103	1.00	0.00
ATOM	2	QB	VALM	1	1.243	3.007	-6.564	1.00	0.00
ATOM	3	CN	VALM	1	1.025	3.041	-6.275	1.00	0.00
ATOM	4	1HNB	VALM	1	0.828	3.849	-6.981	1.00	0.00
ATOM	5	2HNB	VALM	1	2.063	3.089	-5.950	1.00	0.00
ATOM	6	3HNB	VALM	1	0.840	2.082	-6.761	1.00	0.00
ATOM	7	CA	VALM	1	-0.319	2.026	-4.333	1.00	0.00
ATOM	8	HA	VALM	1	-1.307	2.256	-3.892	1.00	0.00
ATOM	9	CB	VALM	1	-0.452	0.768	-5.280	1.00	0.00

ATOM	10	HB	VALM	1	-1.289	0.151	-4.891	1.00	0.00
ATOM	11	QG1	VALM	1	-0.859	1.129	-7.179	1.00	0.00
ATOM	12	QG2	VALM	1	1.139	-0.380	-5.315	1.00	0.00
ATOM	13	CG1	VALM	1	-0.775	1.059	-6.772	1.00	0.00
ATOM	14	1HG1	VALM	1	-1.280	2.034	-6.912	1.00	0.00
ATOM	15	2HG1	VALM	1	0.132	1.066	-7.405	1.00	0.00
ATOM	16	3HG1	VALM	1	-1.428	0.287	-7.220	1.00	0.00
ATOM	17	CG2	VALM	1	0.807	-0.133	-5.304	1.00	0.00
ATOM	18	1HG2	VALM	1	1.679	0.349	-4.825	1.00	0.00
ATOM	19	2HG2	VALM	1	0.636	-1.092	-4.781	1.00	0.00
ATOM	20	3HG2	VALM	1	1.103	-0.398	-6.338	1.00	0.00
ATOM	21	QQG	VALM	1	0.140	0.374	-6.247	1.00	0.00
ATOM	22	C	VALM	1	0.621	1.739	-3.186	1.00	0.00
ATOM	23	O	VALM	1	1.611	2.450	-3.023	1.00	0.00
ATOM	24	N	PRO	2	0.291	0.683	-2.396	1.00	0.00
ATOM	25	CD	PRO	2	-0.874	-0.181	-2.558	1.00	0.00
ATOM	26	CA	PRO	2	1.120	0.310	-1.262	1.00	0.00
ATOM	27	HA	PRO	2	1.419	1.127	-0.767	1.00	0.00
ATOM	28	CB	PRO	2	0.234	-0.576	-0.402	1.00	0.00
ATOM	29	2HB	PRO	2	-0.157	-0.025	0.454	1.00	0.00
ATOM	30	QB	PRO	2	-0.157	-0.025	0.454	1.00	0.00
ATOM	31	CG	PRO	2	-0.892	-1.044	-1.308	1.00	0.00
ATOM	32	2HG	PRO	2	-1.853	-0.959	-0.800	1.00	0.00
ATOM	33	QG	PRO	2	-1.853	-0.959	-0.800	1.00	0.00
ATOM	34	2HD	PRO	2	-1.790	0.403	-2.650	1.00	0.00
ATOM	35	QD	PRO	2	-1.790	0.403	-2.650	1.00	0.00
ATOM	36	C	PRO	2	2.398	-0.391	-1.724	1.00	0.00
ATOM	37	O	PRO	2	2.455	-0.921	-2.832	1.00	0.00
ATOM	38	N	ILE	3	3.395	-0.372	-0.850	1.00	0.00
ATOM	39	H	ILE	3	3.341	0.061	0.050	1.00	0.00
ATOM	40	CA	ILE	3	4.669	-0.999	-1.155	1.00	0.00
ATOM	41	HA	ILE	3	4.690	-1.194	-2.227	1.00	0.00
ATOM	42	CB	ILE	3	5.824	-0.044	-0.846	1.00	0.00
ATOM	43	HB	ILE	3	6.514	-0.550	-0.170	1.00	0.00
ATOM	44	QG2	ILE	3	6.791	0.382	-2.417	1.00	0.00
ATOM	45	CG2	ILE	3	6.605	0.300	-2.115	1.00	0.00
ATOM	46	1HG2	ILE	3	6.976	1.323	-2.047	1.00	0.00
ATOM	47	2HG2	ILE	3	7.447	-0.385	-2.221	1.00	0.00
ATOM	48	3HG2	ILE	3	5.950	0.208	-2.982	1.00	0.00
ATOM	49	CG1	ILE	3	5.322	1.208	-0.125	1.00	0.00
ATOM	50	2HG1	ILE	3	4.385	1.540	-0.573	1.00	0.00
ATOM	51	QG1	ILE	3	4.385	1.540	-0.573	1.00	0.00
ATOM	52	QD1	ILE	3	5.061	0.871	1.720	1.00	0.00
ATOM	53	CD1	ILE	3	5.111	0.936	1.366	1.00	0.00
ATOM	54	1HD1	ILE	3	5.518	-0.044	1.617	1.00	0.00
ATOM	55	2HD1	ILE	3	5.620	1.701	1.952	1.00	0.00
ATOM	56	3HD1	ILE	3	4.044	0.955	1.592	1.00	0.00
ATOM	57	C	ILE	3	4.764	-2.336	-0.418	1.00	0.00
ATOM	58	O	ILE	3	5.279	-3.348	-0.918	1.00	0.00
ATOM	59	N	PIP	4	4.254	-2.340	0.800	1.00	0.00
ATOM	60	CE	PIP	4	3.650	-1.167	1.394	1.00	0.00
ATOM	61	CA	PIP	4	4.272	-3.519	1.651	1.00	0.00
ATOM	62	HA	PIP	4	5.262	-3.973	1.690	1.00	0.00
ATOM	63	CB	PIP	4	3.869	-3.181	3.099	1.00	0.00
ATOM	64	2HB	PIP	4	3.893	-4.086	3.705	1.00	0.00
ATOM	65	3HB	PIP	4	4.565	-2.451	3.509	1.00	0.00
ATOM	66	QB	PIP	4	4.229	-3.269	3.607	1.00	0.00
ATOM	67	CG	PIP	4	2.444	-2.594	3.112	1.00	0.00
ATOM	68	2HG	PIP	4	2.159	-2.354	4.136	1.00	0.00

ATOM	69	3HG	PIP	4	1.746	-3.323	2.702	1.00	0.00
ATOM	70	QG	PIP	4	1.953	-2.839	3.419	1.00	0.00
ATOM	71	CD	PIP	4	2.456	-1.591	2.268	1.00	0.00
ATOM	72	2HD	PIP	4	2.001	-0.707	2.716	1.00	0.00
ATOM	73	3HD	PIP	4	1.718	-2.105	1.653	1.00	0.00
ATOM	74	OD	PIP	4	1.859	-1.406	2.184	1.00	0.00
ATOM	75	1HE	PIP	4	4.386	-0.652	2.010	1.00	0.00
ATOM	76	2HE	PIP	4	3.304	-0.498	0.606	1.00	0.00
ATOM	77	QE	PIP	4	3.845	-0.575	1.308	1.00	0.00
ATOM	78	C	PIP	4	3.296	-4.597	1.148	1.00	0.00
ATOM	79	O	PIP	4	2.686	-4.317	0.117	1.00	0.00
ATOM	80	N	ALA	5	3.166	-5.736	1.812	1.00	0.00
ATOM	81	H	ALA	5	3.666	-5.956	2.649	1.00	0.00
ATOM	82	CA	ALA	5	2.258	-6.772	1.349	1.00	0.00
ATOM	83	HA	ALA	5	2.706	-7.238	0.471	1.00	0.00
ATOM	84	QB	ALA	5	2.055	-8.083	2.700	1.00	0.00
ATOM	85	CB	ALA	5	2.094	-7.832	2.440	1.00	0.00
ATOM	86	1HB	ALA	5	2.816	-7.649	3.236	1.00	0.00
ATOM	87	2HB	ALA	5	1.084	-7.780	2.848	1.00	0.00
ATOM	88	3HB	ALA	5	2.264	-8.821	2.015	1.00	0.00
ATOM	89	C	ALA	5	0.925	-6.135	0.950	1.00	0.00
ATOM	90	O	ALA	5	0.589	-5.048	1.415	1.00	0.00
ATOM	91	N	PRO	6	0.184	-6.859	0.068	1.00	0.00
ATOM	92	CD	PRO	6	0.551	-8.151	-0.504	1.00	0.00
ATOM	93	CA	PRO	6	-1.105	-6.376	-0.399	1.00	0.00
ATOM	94	HA	PRO	6	-1.057	-5.397	-0.597	1.00	0.00
ATOM	95	CB	PRO	6	-1.400	-7.190	-1.649	1.00	0.00
ATOM	96	2HB	PRO	6	-1.198	-6.609	-2.549	1.00	0.00
ATOM	97	QB	PRO	6	-1.198	-6.609	-2.549	1.00	0.00
ATOM	98	CG	PRO	6	-0.498	-8.411	-1.573	1.00	0.00
ATOM	99	2HG	PRO	6	-0.023	-8.594	-2.538	1.00	0.00
ATOM	100	QG	PRO	6	-0.023	-8.594	-2.538	1.00	0.00
ATOM	101	2HD	PRO	6	1.554	-8.125	-0.931	1.00	0.00
ATOM	102	QD	PRO	6	1.554	-8.125	-0.931	1.00	0.00
ATOM	103	C	PRO	6	-2.174	-6.533	0.683	1.00	0.00
ATOM	104	O	PRO	6	-2.592	-7.634	1.064	1.00	0.00
ATOM	105	N	THRM	7	-2.627	-5.400	1.189	1.00	0.00
ATOM	106	QB	THRM	7	-3.917	-5.557	2.496	1.00	0.00
ATOM	107	CN	THRM	7	-3.662	-5.527	2.238	1.00	0.00
ATOM	108	1HNB	THRM	7	-3.877	-6.581	2.414	1.00	0.00
ATOM	109	2HNB	THRM	7	-3.303	-5.071	3.161	1.00	0.00
ATOM	110	3HNB	THRM	7	-4.572	-5.020	1.914	1.00	0.00
ATOM	111	CA	THRM	7	-2.134	-4.102	0.740	1.00	0.00
ATOM	112	HA	THRM	7	-1.035	-4.162	0.638	1.00	0.00
ATOM	113	CB	THRM	7	-2.748	-3.732	-0.652	1.00	0.00
ATOM	114	HB	THRM	7	-1.922	-3.664	-1.392	1.00	0.00
ATOM	115	QG2	THRM	7	-4.106	-4.960	-1.353	1.00	0.00
ATOM	116	OG1	THRM	7	-3.405	-2.472	-0.588	1.00	0.00
ATOM	117	1HG	THRM	7	-4.133	-2.581	0.030	1.00	0.00
ATOM	118	CG2	THRM	7	-3.818	-4.697	-1.206	1.00	0.00
ATOM	119	1HG2	THRM	7	-3.468	-5.745	-1.217	1.00	0.00
ATOM	120	2HG2	THRM	7	-4.743	-4.696	-0.599	1.00	0.00
ATOM	121	3HG2	THRM	7	-4.108	-4.437	-2.242	1.00	0.00
ATOM	122	C	THRM	7	-2.434	-3.027	1.758	1.00	0.00
ATOM	123	O	THRM	7	-3.175	-3.282	2.707	1.00	0.00
ATOM	124	N	VAL	8	-1.861	-1.852	1.549	1.00	0.00
ATOM	125	H	VAL	8	-1.259	-1.653	0.774	1.00	0.00
ATOM	126	CA	VAL	8	-2.075	-0.742	2.461	1.00	0.00
ATOM	127	HA	VAL	8	-3.038	-0.896	2.947	1.00	0.00

ATOM	128	CB	VAL	8	-0.993	-0.736	3.542	1.00	0.00
ATOM	129	HB	VAL	8	-0.322	-1.573	3.349	1.00	0.00
ATOM	130	QG1	VAL	8	0.029	0.857	3.471	1.00	0.00
ATOM	131	QG2	VAL	8	-1.749	-0.981	5.260	1.00	0.00
ATOM	132	CG1	VAL	8	-0.167	0.551	3.484	1.00	0.00
ATOM	133	1HG1	VAL	8	-0.836	1.411	3.447	1.00	0.00
ATOM	134	2HG1	VAL	8	0.462	0.619	4.373	1.00	0.00
ATOM	135	3HG1	VAL	8	0.461	0.540	2.594	1.00	0.00
ATOM	136	CG2	VAL	8	-1.604	-0.934	4.930	1.00	0.00
ATOM	137	1HG2	VAL	8	-2.591	-1.387	4.832	1.00	0.00
ATOM	138	2HG2	VAL	8	-0.961	-1.587	5.521	1.00	0.00
ATOM	139	3HG2	VAL	8	-1.696	0.031	5.429	1.00	0.00
ATOM	140	QQG	VAL	8	-0.860	-0.062	4.366	1.00	0.00
ATOM	141	C	VAL	8	-2.131	0.563	1.664	1.00	0.00
ATOM	142	O	VAL	8	-1.732	0.658	0.497	1.00	0.00
ATOM	143	N	THRM	9	-2.639	1.593	2.315	1.00	0.00
ATOM	144	QB	THRM	9	-3.181	1.267	4.047	1.00	0.00
ATOM	145	CN	THRM	9	-3.074	1.332	3.705	1.00	0.00
ATOM	146	1HNB	THRM	9	-2.888	0.287	3.953	1.00	0.00
ATOM	147	2HNB	THRM	9	-2.516	1.972	4.388	1.00	0.00
ATOM	148	3HNB	THRM	9	-4.139	1.542	3.799	1.00	0.00
ATOM	149	CA	THRM	9	-2.765	2.912	1.700	1.00	0.00
ATOM	150	HA	THRM	9	-2.478	2.829	0.636	1.00	0.00
ATOM	151	CB	THRM	9	-4.244	3.419	1.784	1.00	0.00
ATOM	152	HB	THRM	9	-4.357	4.015	2.715	1.00	0.00
ATOM	153	QG2	THRM	9	-4.880	4.504	0.281	1.00	0.00
ATOM	154	OG1	THRM	9	-5.144	2.320	1.838	1.00	0.00
ATOM	155	1HG	THRM	9	-4.987	1.808	1.039	1.00	0.00
ATOM	156	CG2	THRM	9	-4.743	4.272	0.599	1.00	0.00
ATOM	157	1HG2	THRM	9	-5.847	4.303	0.543	1.00	0.00
ATOM	158	2HG2	THRM	9	-4.417	5.326	0.669	1.00	0.00
ATOM	159	3HG2	THRM	9	-4.377	3.882	-0.370	1.00	0.00
ATOM	160	C	THRM	9	-1.823	3.901	2.345	1.00	0.00
ATOM	161	O	THRM	9	-2.209	4.726	3.150	1.00	0.00
ATOM	162	N	VALM	10	-0.557	3.816	1.983	1.00	0.00
ATOM	163	QB	VALM	10	-0.155	2.506	0.751	1.00	0.00
ATOM	164	CN	VALM	10	-0.234	2.764	0.994	1.00	0.00
ATOM	165	1HNB	VALM	10	0.794	2.887	0.655	1.00	0.00
ATOM	166	2HNB	VALM	10	-0.351	1.783	1.455	1.00	0.00
ATOM	167	3HNB	VALM	10	-0.909	2.847	0.141	1.00	0.00
ATOM	168	CA	VALM	10	0.464	4.709	2.524	1.00	0.00
ATOM	169	HA	VALM	10	0.074	5.743	2.515	1.00	0.00
ATOM	170	CB	VALM	10	0.806	4.292	4.010	1.00	0.00
ATOM	171	HB	VALM	10	1.317	3.307	3.965	1.00	0.00
ATOM	172	QG1	VALM	10	2.008	5.497	5.014	1.00	0.00
ATOM	173	QG2	VALM	10	-0.768	4.065	5.159	1.00	0.00
ATOM	174	CG1	VALM	10	1.752	5.245	4.792	1.00	0.00
ATOM	175	1HG1	VALM	10	2.099	6.096	4.177	1.00	0.00
ATOM	176	2HG1	VALM	10	1.270	5.669	5.694	1.00	0.00
ATOM	177	3HG1	VALM	10	2.654	4.727	5.170	1.00	0.00
ATOM	178	CG2	VALM	10	-0.437	4.119	4.915	1.00	0.00
ATOM	179	1HG2	VALM	10	-1.041	5.043	4.980	1.00	0.00
ATOM	180	2HG2	VALM	10	-1.104	3.318	4.548	1.00	0.00
ATOM	181	3HG2	VALM	10	-0.158	3.835	5.947	1.00	0.00
ATOM	182	QQG	VALM	10	0.620	4.781	5.086	1.00	0.00
ATOM	183	C	VALM	10	1.705	4.696	1.664	1.00	0.00
ATOM	184	O	VALM	10	2.801	4.323	2.099	1.00	0.00
ATOM	185	N	ILEM	11	1.550	5.108	0.419	1.00	0.00
ATOM	186	QB	ILEM	11	-0.156	5.626	-0.054	1.00	0.00



ATOM	187	CN	ILEM	11	0.181	5.524	0.039	1.00	0.00
ATOM	188	1HNB	ILEM	11	-0.485	5.411	0.895	1.00	0.00
ATOM	189	2HNB	ILEM	11	0.192	6.568	-0.275	1.00	0.00
ATOM	190	3HNB	ILEM	11	-0.174	4.901	-0.781	1.00	0.00
ATOM	191	CA	ILEM	11	2.662	5.150	-0.526	1.00	0.00
ATOM	192	HA	ILEM	11	2.313	5.687	-1.427	1.00	0.00
ATOM	193	CB	ILEM	11	3.899	5.933	0.075	1.00	0.00
ATOM	194	HB	ILEM	11	3.694	6.067	1.157	1.00	0.00
ATOM	195	QG2	ILEM	11	5.601	4.930	-0.103	1.00	0.00
ATOM	196	CG2	ILEM	11	5.237	5.142	-0.058	1.00	0.00
ATOM	197	1HG2	ILEM	11	5.404	4.767	-1.083	1.00	0.00
ATOM	198	2HG2	ILEM	11	6.129	5.757	0.158	1.00	0.00
ATOM	199	3HG2	ILEM	11	5.271	4.266	0.616	1.00	0.00
ATOM	200	CG1	ILEM	11	4.118	7.360	-0.521	1.00	0.00
ATOM	201	2HG1	ILEM	11	4.408	8.058	0.287	1.00	0.00
ATOM	202	QG1	ILEM	11	4.408	8.058	0.287	1.00	0.00
ATOM	203	QD1	ILEM	11	5.516	7.517	-1.877	1.00	0.00
ATOM	204	CD1	ILEM	11	5.219	7.479	-1.595	1.00	0.00
ATOM	205	1HD1	ILEM	11	5.812	8.404	-1.459	1.00	0.00
ATOM	206	2HD1	ILEM	11	5.927	6.631	-1.552	1.00	0.00
ATOM	207	3HD1	ILEM	11	4.809	7.517	-2.620	1.00	0.00
ATOM	208	C	ILEM	11	3.041	3.760	-0.977	1.00	0.00
ATOM	209	O	ILEM	11	2.782	2.756	-0.297	1.00	0.00
ATOM	210	N	PIPO	12	3.666	3.678	-2.136	1.00	0.00
ATOM	211	CE	PIPO	12	4.093	2.417	-2.703	1.00	0.00
ATOM	212	CA	PIPO	12	3.989	4.851	-2.934	1.00	0.00
ATOM	213	HA	PIPO	12	4.471	5.624	-2.336	1.00	0.00
ATOM	214	CB	PIPO	12	4.948	4.505	-4.090	1.00	0.00
ATOM	215	2HB	PIPO	12	5.166	5.406	-4.663	1.00	0.00
ATOM	216	3HB	PIPO	12	5.874	4.098	-3.684	1.00	0.00
ATOM	217	QB	PIPO	12	5.520	4.752	-4.173	1.00	0.00
ATOM	218	CG	PIPO	12	4.289	3.459	-5.008	1.00	0.00
ATOM	219	2HG	PIPO	12	4.967	3.215	-5.825	1.00	0.00
ATOM	220	3HG	PIPO	12	3.362	3.865	-5.415	1.00	0.00
ATOM	221	QG	PIPO	12	4.165	3.540	-5.620	1.00	0.00
ATOM	222	CD	PIPO	12	3.937	2.462	-4.234	1.00	0.00
ATOM	223	2HD	PIPO	12	4.261	1.512	-4.660	1.00	0.00
ATOM	224	3HD	PIPO	12	2.893	2.637	-4.488	1.00	0.00
ATOM	225	QD	PIPO	12	3.577	2.074	-4.574	1.00	0.00
ATOM	226	1HE	PIPO	12	5.138	2.241	-2.449	1.00	0.00
ATOM	227	2HE	PIPO	12	3.481	1.610	-2.299	1.00	0.00
ATOM	228	QE	PIPO	12	4.310	1.926	-2.374	1.00	0.00
ATOM	229	C	PIPO	12	2.731	5.477	-3.559	1.00	0.00
ATOM	230	O	PIPO	12	2.535	6.685	-3.381	1.00	0.00
ATOM	231	O1'	PHEO	13	1.903	4.731	-4.268	1.00	0.00
ATOM	232	CA	PHEO	13	0.504	5.099	-4.462	1.00	0.00
ATOM	233	HA	PHEO	13	0.434	6.006	-5.091	1.00	0.00
ATOM	234	CB	PHEO	13	-0.147	5.365	-3.070	1.00	0.00
ATOM	235	2HB	PHEO	13	0.636	5.688	-2.355	1.00	0.00
ATOM	236	QB	PHEO	13	0.636	5.688	-2.355	1.00	0.00
ATOM	237	QD	PHEO	13	-1.404	6.516	-3.007	1.00	0.00
ATOM	238	QE	PHEO	13	-3.175	8.220	-2.858	1.00	0.00
ATOM	239	QR	PHEO	13	-2.645	7.710	-2.902	1.00	0.00
ATOM	240	CG	PHEO	13	-1.290	6.391	-3.035	1.00	0.00
ATOM	241	CD1	PHEO	13	-1.095	7.662	-3.586	1.00	0.00
ATOM	242	1HD	PHEO	13	-0.152	7.916	-4.050	1.00	0.00
ATOM	243	CE1	PHEO	13	-2.092	8.628	-3.490	1.00	0.00
ATOM	244	1HE	PHEO	13	-1.919	9.617	-3.892	1.00	0.00
ATOM	245	CZ	PHEO	13	-3.295	8.325	-2.860	1.00	0.00

ATOM	246	HZ	PHEO	13	-4.065	9.078	-2.782	1.00	0.00
ATOM	247	CE2	PHEO	13	-3.501	7.056	-2.320	1.00	0.00
ATOM	248	2HE	PHEO	13	-4.432	6.823	-1.823	1.00	0.00
ATOM	249	CD2	PHEO	13	-2.500	6.091	-2.404	1.00	0.00
ATOM	250	2HD	PHEO	13	-2.657	5.117	-1.965	1.00	0.00
ATOM	251	C	PHEO	13	-0.261	3.982	-5.130	1.00	0.00
ATOM	252	O	PHEO	13	-1.473	4.107	-5.463	1.00	0.00
TER									
ENDMDL									
MODEL 20									
ATOM	1	N	VALM	1	-0.155	3.125	-5.139	1.00	0.00
ATOM	2	QB	VALM	1	-0.655	3.490	-6.875	1.00	0.00
ATOM	3	CN	VALM	1	-0.556	3.418	-6.533	1.00	0.00
ATOM	4	1HNB	VALM	1	0.329	3.443	-7.169	1.00	0.00
ATOM	5	2HNB	VALM	1	-1.236	2.642	-6.886	1.00	0.00
ATOM	6	3HNB	VALM	1	-1.058	4.385	-6.571	1.00	0.00
ATOM	7	CA	VALM	1	-0.364	1.814	-4.533	1.00	0.00
ATOM	8	HA	VALM	1	-1.389	1.771	-4.122	1.00	0.00
ATOM	9	CB	VALM	1	-0.191	0.685	-5.625	1.00	0.00
ATOM	10	HB	VALM	1	-0.087	-0.280	-5.084	1.00	0.00
ATOM	11	QG1	VALM	1	-1.684	0.448	-6.897	1.00	0.00
ATOM	12	QG2	VALM	1	1.406	0.890	-6.744	1.00	0.00
ATOM	13	CG1	VALM	1	-1.367	0.507	-6.624	1.00	0.00
ATOM	14	1HG1	VALM	1	-1.945	1.439	-6.768	1.00	0.00
ATOM	15	2HG1	VALM	1	-1.023	0.177	-7.623	1.00	0.00
ATOM	16	3HG1	VALM	1	-2.082	-0.274	-6.301	1.00	0.00
ATOM	17	CG2	VALM	1	1.071	0.852	-6.505	1.00	0.00
ATOM	18	1HG2	VALM	1	1.666	1.739	-6.220	1.00	0.00
ATOM	19	2HG2	VALM	1	1.739	-0.026	-6.436	1.00	0.00
ATOM	20	3HG2	VALM	1	0.814	0.958	-7.576	1.00	0.00
ATOM	21	QQG	VALM	1	-0.139	0.669	-6.821	1.00	0.00
ATOM	22	C	VALM	1	0.584	1.594	-3.377	1.00	0.00
ATOM	23	O	VALM	1	1.566	2.323	-3.253	1.00	0.00
ATOM	24	N	PRO	2	0.271	0.573	-2.536	1.00	0.00
ATOM	25	CD	PRO	2	-0.884	-0.313	-2.653	1.00	0.00
ATOM	26	CA	PRO	2	1.108	0.265	-1.388	1.00	0.00
ATOM	27	HA	PRO	2	1.398	1.108	-0.935	1.00	0.00
ATOM	28	CB	PRO	2	0.237	-0.590	-0.484	1.00	0.00
ATOM	29	2HB	PRO	2	-0.159	-0.004	0.346	1.00	0.00
ATOM	30	QB	PRO	2	-0.159	-0.004	0.346	1.00	0.00
ATOM	31	CG	PRO	2	-0.887	-1.116	-1.362	1.00	0.00
ATOM	32	2HG	PRO	2	-1.847	-1.019	-0.854	1.00	0.00
ATOM	33	QG	PRO	2	-1.847	-1.019	-0.854	1.00	0.00
ATOM	34	2HD	PRO	2	-1.808	0.254	-2.768	1.00	0.00
ATOM	35	QD	PRO	2	-1.808	0.254	-2.768	1.00	0.00
ATOM	36	C	PRO	2	2.394	-0.441	-1.822	1.00	0.00
ATOM	37	O	PRO	2	2.445	-1.044	-2.893	1.00	0.00
ATOM	38	N	ILE	3	3.402	-0.342	-0.968	1.00	0.00
ATOM	39	H	ILE	3	3.353	0.150	-0.099	1.00	0.00
ATOM	40	CA	ILE	3	4.685	-0.964	-1.249	1.00	0.00
ATOM	41	HA	ILE	3	4.710	-1.193	-2.315	1.00	0.00
ATOM	42	CB	ILE	3	5.827	0.015	-0.970	1.00	0.00
ATOM	43	HB	ILE	3	6.519	-0.459	-0.272	1.00	0.00
ATOM	44	QG2	ILE	3	6.799	0.393	-2.550	1.00	0.00
ATOM	45	CG2	ILE	3	6.612	0.320	-2.247	1.00	0.00
ATOM	46	1HG2	ILE	3	7.115	1.282	-2.143	1.00	0.00
ATOM	47	2HG2	ILE	3	7.354	-0.461	-2.414	1.00	0.00
ATOM	48	3HG2	ILE	3	5.927	0.359	-3.093	1.00	0.00
ATOM	49	CG1	ILE	3	5.308	1.287	-0.298	1.00	0.00

ATOM	50	2HG1	ILE	3	4.367	1.589	-0.760	1.00	0.00
ATOM	51	QG1	ILE	3	4.367	1.589	-0.760	1.00	0.00
ATOM	52	QD1	ILE	3	5.048	1.017	1.558	1.00	0.00
ATOM	53	CD1	ILE	3	5.098	1.069	1.202	1.00	0.00
ATOM	54	1HD1	ILE	3	5.592	1.865	1.758	1.00	0.00
ATOM	55	2HD1	ILE	3	4.031	1.078	1.425	1.00	0.00
ATOM	56	3HD1	ILE	3	5.521	0.107	1.492	1.00	0.00
ATOM	57	C	ILE	3	4.793	-2.275	-0.469	1.00	0.00
ATOM	58	O	ILE	3	5.315	-3.299	-0.936	1.00	0.00
ATOM	59	N	PIP	4	4.288	-2.242	0.751	1.00	0.00
ATOM	60	CE	PIP	4	3.677	-1.055	1.307	1.00	0.00
ATOM	61	CA	PIP	4	4.319	-3.393	1.641	1.00	0.00
ATOM	62	HA	PIP	4	5.313	-3.837	1.690	1.00	0.00
ATOM	63	CB	PIP	4	3.919	-3.009	3.077	1.00	0.00
ATOM	64	2HB	PIP	4	3.953	-3.894	3.713	1.00	0.00
ATOM	65	3HB	PIP	4	4.611	-2.259	3.460	1.00	0.00
ATOM	66	QB	PIP	4	4.282	-3.077	3.587	1.00	0.00
ATOM	67	CG	PIP	4	2.490	-2.434	3.078	1.00	0.00
ATOM	68	2HG	PIP	4	2.207	-2.162	4.094	1.00	0.00
ATOM	69	3HG	PIP	4	1.796	-3.182	2.696	1.00	0.00
ATOM	70	QG	PIP	4	2.001	-2.672	3.395	1.00	0.00
ATOM	71	CD	PIP	4	2.490	-1.459	2.200	1.00	0.00
ATOM	72	2HD	PIP	4	2.029	-0.564	2.620	1.00	0.00
ATOM	73	3HD	PIP	4	1.754	-2.001	1.606	1.00	0.00
ATOM	74	QD	PIP	4	1.891	-1.283	2.113	1.00	0.00
ATOM	75	1HE	PIP	4	4.411	-0.514	1.903	1.00	0.00
ATOM	76	2HE	PIP	4	3.322	-0.415	0.499	1.00	0.00
ATOM	77	QE	PIP	4	3.866	-0.464	1.201	1.00	0.00
ATOM	78	C	PIP	4	3.351	-4.494	1.177	1.00	0.00
ATOM	79	O	PIP	4	2.723	-4.247	0.149	1.00	0.00
ATOM	80	N	ALA	5	3.245	-5.619	1.871	1.00	0.00
ATOM	81	H	ALA	5	3.759	-5.811	2.706	1.00	0.00
ATOM	82	CA	ALA	5	2.344	-6.677	1.446	1.00	0.00
ATOM	83	HA	ALA	5	2.784	-7.156	0.572	1.00	0.00
ATOM	84	QB	ALA	5	2.182	-7.960	2.829	1.00	0.00
ATOM	85	CB	ALA	5	2.213	-7.714	2.563	1.00	0.00
ATOM	86	1HB	ALA	5	3.185	-8.173	2.750	1.00	0.00
ATOM	87	2HB	ALA	5	1.861	-7.226	3.472	1.00	0.00
ATOM	88	3HB	ALA	5	1.500	-8.483	2.264	1.00	0.00
ATOM	89	C	ALA	5	0.996	-6.067	1.056	1.00	0.00
ATOM	90	O	ALA	5	0.639	-4.989	1.526	1.00	0.00
ATOM	91	N	PRO	6	0.266	-6.803	0.175	1.00	0.00
ATOM	92	CD	PRO	6	0.658	-8.085	-0.403	1.00	0.00
ATOM	93	CA	PRO	6	-1.035	-6.347	-0.284	1.00	0.00
ATOM	94	HA	PRO	6	-1.010	-5.366	-0.478	1.00	0.00
ATOM	95	CB	PRO	6	-1.318	-7.163	-1.535	1.00	0.00
ATOM	96	2HB	PRO	6	-1.135	-6.576	-2.434	1.00	0.00
ATOM	97	QB	PRO	6	-1.135	-6.576	-2.434	1.00	0.00
ATOM	98	CG	PRO	6	-0.390	-8.364	-1.468	1.00	0.00
ATOM	99	2HG	PRO	6	0.084	-8.534	-2.435	1.00	0.00
ATOM	100	QG	PRO	6	0.084	-8.534	-2.435	1.00	0.00
ATOM	101	2HD	PRO	6	1.658	-8.037	-0.834	1.00	0.00
ATOM	102	QD	PRO	6	1.658	-8.037	-0.834	1.00	0.00
ATOM	103	C	PRO	6	-2.096	-6.531	0.804	1.00	0.00
ATOM	104	O	PRO	6	-2.435	-7.639	1.232	1.00	0.00
ATOM	105	N	THRM	7	-2.629	-5.411	1.257	1.00	0.00
ATOM	106	QB	THRM	7	-3.911	-5.600	2.568	1.00	0.00
ATOM	107	CN	THRM	7	-3.658	-5.563	2.310	1.00	0.00
ATOM	108	1HNB	THRM	7	-3.798	-6.621	2.531	1.00	0.00

ATOM	109	2HNB	THRM	7	-3.335	-5.042	3.211	1.00	0.00
ATOM	110	3HNB	THRM	7	-4.599	-5.138	1.961	1.00	0.00
ATOM	111	CA	THRM	7	-2.227	-4.102	0.750	1.00	0.00
ATOM	112	HA	THRM	7	-1.125	-4.078	0.681	1.00	0.00
ATOM	113	CB	THRM	7	-2.826	-3.857	-0.675	1.00	0.00
ATOM	114	HB	THRM	7	-1.996	-3.577	-1.360	1.00	0.00
ATOM	115	QG2	THRM	7	-3.809	-5.354	-1.474	1.00	0.00
ATOM	116	OG1	THRM	7	-3.767	-2.792	-0.644	1.00	0.00
ATOM	117	1HG	THRM	7	-3.299	-2.033	-0.282	1.00	0.00
ATOM	118	CG2	THRM	7	-3.598	-5.036	-1.306	1.00	0.00
ATOM	119	1HG2	THRM	7	-3.912	-5.779	-0.551	1.00	0.00
ATOM	120	2HG2	THRM	7	-4.527	-4.712	-1.812	1.00	0.00
ATOM	121	3HG2	THRM	7	-2.988	-5.570	-2.059	1.00	0.00
ATOM	122	C	THRM	7	-2.642	-3.004	1.699	1.00	0.00
ATOM	123	O	THRM	7	-3.463	-3.245	2.583	1.00	0.00
ATOM	124	N	VAL	8	-2.074	-1.823	1.505	1.00	0.00
ATOM	125	H	VAL	8	-1.407	-1.635	0.785	1.00	0.00
ATOM	126	CA	VAL	8	-2.395	-0.689	2.356	1.00	0.00
ATOM	127	HA	VAL	8	-3.420	-0.817	2.702	1.00	0.00
ATOM	128	CB	VAL	8	-1.479	-0.679	3.582	1.00	0.00
ATOM	129	HB	VAL	8	-1.254	0.360	3.824	1.00	0.00
ATOM	130	QG1	VAL	8	-2.342	-1.452	5.080	1.00	0.00
ATOM	131	QG2	VAL	8	0.157	-1.558	3.214	1.00	0.00
ATOM	132	CG1	VAL	8	-2.177	-1.303	4.793	1.00	0.00
ATOM	133	1HG1	VAL	8	-2.405	-0.526	5.521	1.00	0.00
ATOM	134	2HG1	VAL	8	-3.101	-1.784	4.471	1.00	0.00
ATOM	135	3HG1	VAL	8	-1.520	-2.045	5.247	1.00	0.00
ATOM	136	CG2	VAL	8	-0.157	-1.389	3.284	1.00	0.00
ATOM	137	1HG2	VAL	8	-0.273	-2.459	3.457	1.00	0.00
ATOM	138	2HG2	VAL	8	0.123	-1.216	2.245	1.00	0.00
ATOM	139	3HG2	VAL	8	0.621	-0.998	3.940	1.00	0.00
ATOM	140	QQG	VAL	8	-1.092	-1.505	4.147	1.00	0.00
ATOM	141	C	VAL	8	-2.309	0.599	1.536	1.00	0.00
ATOM	142	O	VAL	8	-1.874	0.633	0.379	1.00	0.00
ATOM	143	N	THRM	9	-2.737	1.684	2.154	1.00	0.00
ATOM	144	QB	THRM	9	-3.351	1.443	3.876	1.00	0.00
ATOM	145	CN	THRM	9	-3.231	1.492	3.536	1.00	0.00
ATOM	146	1HNB	THRM	9	-3.149	0.438	3.808	1.00	0.00
ATOM	147	2HNB	THRM	9	-2.633	2.091	4.222	1.00	0.00
ATOM	148	3HNB	THRM	9	-4.273	1.801	3.596	1.00	0.00
ATOM	149	CA	THRM	9	-2.725	2.995	1.512	1.00	0.00
ATOM	150	HA	THRM	9	-2.393	2.869	0.466	1.00	0.00
ATOM	151	CB	THRM	9	-4.160	3.622	1.513	1.00	0.00
ATOM	152	HB	THRM	9	-4.124	4.579	0.950	1.00	0.00
ATOM	153	QG2	THRM	9	-5.589	2.512	0.757	1.00	0.00
ATOM	154	OG1	THRM	9	-4.584	3.893	2.842	1.00	0.00
ATOM	155	1HG	THRM	9	-5.359	3.343	2.994	1.00	0.00
ATOM	156	CG2	THRM	9	-5.287	2.750	0.918	1.00	0.00
ATOM	157	1HG2	THRM	9	-4.994	2.289	-0.043	1.00	0.00
ATOM	158	2HG2	THRM	9	-5.565	1.909	1.581	1.00	0.00
ATOM	159	3HG2	THRM	9	-6.207	3.337	0.734	1.00	0.00
ATOM	160	C	THRM	9	-1.740	3.918	2.189	1.00	0.00
ATOM	161	O	THRM	9	-2.100	4.865	2.860	1.00	0.00
ATOM	162	N	VALM	10	-0.463	3.636	2.008	1.00	0.00
ATOM	163	QB	VALM	10	-0.103	2.162	0.960	1.00	0.00
ATOM	164	CN	VALM	10	-0.174	2.453	1.167	1.00	0.00
ATOM	165	1HNB	VALM	10	-0.774	2.497	0.258	1.00	0.00
ATOM	166	2HNB	VALM	10	0.884	2.444	0.904	1.00	0.00
ATOM	167	3HNB	VALM	10	-0.418	1.545	1.720	1.00	0.00

ATOM	168	CA	VALM	10	0.600	4.443	2.602	1.00	0.00
ATOM	169	HA	VALM	10	0.256	5.491	2.669	1.00	0.00
ATOM	170	CB	VALM	10	0.932	3.907	4.050	1.00	0.00
ATOM	171	HB	VALM	10	1.851	3.288	3.968	1.00	0.00
ATOM	172	QG1	VALM	10	1.310	5.271	5.430	1.00	0.00
ATOM	173	QG2	VALM	10	-0.466	2.770	4.824	1.00	0.00
ATOM	174	CG1	VALM	10	1.222	4.983	5.134	1.00	0.00
ATOM	175	1HG1	VALM	10	0.410	5.731	5.216	1.00	0.00
ATOM	176	2HG1	VALM	10	1.363	4.541	6.138	1.00	0.00
ATOM	177	3HG1	VALM	10	2.158	5.540	4.936	1.00	0.00
ATOM	178	CG2	VALM	10	-0.171	3.006	4.656	1.00	0.00
ATOM	179	1HG2	VALM	10	-0.459	2.183	3.977	1.00	0.00
ATOM	180	2HG2	VALM	10	0.150	2.546	5.608	1.00	0.00
ATOM	181	3HG2	VALM	10	-1.089	3.580	4.887	1.00	0.00
ATOM	182	QQG	VALM	10	0.422	4.020	5.127	1.00	0.00
ATOM	183	C	VALM	10	1.833	4.437	1.731	1.00	0.00
ATOM	184	O	VALM	10	2.907	3.962	2.118	1.00	0.00
ATOM	185	N	ILEM	11	1.697	4.971	0.531	1.00	0.00
ATOM	186	QB	ILEM	11	0.023	5.630	0.126	1.00	0.00
ATOM	187	CN	ILEM	11	0.353	5.500	0.206	1.00	0.00
ATOM	188	1HNB	ILEM	11	-0.313	5.347	1.054	1.00	0.00
ATOM	189	2HNB	ILEM	11	0.425	6.565	-0.012	1.00	0.00
ATOM	190	3HNB	ILEM	11	-0.043	4.978	-0.665	1.00	0.00
ATOM	191	CA	ILEM	11	2.804	5.035	-0.417	1.00	0.00
ATOM	192	HA	ILEM	11	2.479	5.663	-1.269	1.00	0.00
ATOM	193	CB	ILEM	11	4.083	5.702	0.234	1.00	0.00
ATOM	194	HB	ILEM	11	3.912	5.710	1.331	1.00	0.00
ATOM	195	QG2	ILEM	11	5.741	4.665	-0.104	1.00	0.00
ATOM	196	CG2	ILEM	11	5.390	4.893	-0.034	1.00	0.00
ATOM	197	1HG2	ILEM	11	5.456	3.982	0.587	1.00	0.00
ATOM	198	2HG2	ILEM	11	5.467	4.523	-1.071	1.00	0.00
ATOM	199	3HG2	ILEM	11	6.298	5.490	0.172	1.00	0.00
ATOM	200	CG1	ILEM	11	4.334	7.185	-0.194	1.00	0.00
ATOM	201	2HG1	ILEM	11	4.727	7.756	0.669	1.00	0.00
ATOM	202	QG1	ILEM	11	4.727	7.756	0.669	1.00	0.00
ATOM	203	QD1	ILEM	11	5.614	7.451	-1.645	1.00	0.00
ATOM	204	CD1	ILEM	11	5.349	7.394	-1.336	1.00	0.00
ATOM	205	1HD1	ILEM	11	4.837	7.509	-2.309	1.00	0.00
ATOM	206	2HD1	ILEM	11	5.959	8.303	-1.181	1.00	0.00
ATOM	207	3HD1	ILEM	11	6.046	6.543	-1.444	1.00	0.00
ATOM	208	C	ILEM	11	3.110	3.670	-0.985	1.00	0.00
ATOM	209	O	ILEM	11	2.833	2.627	-0.375	1.00	0.00
ATOM	210	N	PIPO	12	3.691	3.652	-2.171	1.00	0.00
ATOM	211	CE	PIPO	12	4.046	2.423	-2.845	1.00	0.00
ATOM	212	CA	PIPO	12	4.035	4.869	-2.890	1.00	0.00
ATOM	213	HA	PIPO	12	4.569	5.575	-2.253	1.00	0.00
ATOM	214	CB	PIPO	12	4.939	4.576	-4.102	1.00	0.00
ATOM	215	2HB	PIPO	12	5.175	5.509	-4.614	1.00	0.00
ATOM	216	3HB	PIPO	12	5.860	4.104	-3.763	1.00	0.00
ATOM	217	QB	PIPO	12	5.518	4.807	-4.188	1.00	0.00
ATOM	218	CG	PIPO	12	4.206	3.630	-5.072	1.00	0.00
ATOM	219	2HG	PIPO	12	4.845	3.422	-5.930	1.00	0.00
ATOM	220	3HG	PIPO	12	3.284	4.101	-5.412	1.00	0.00
ATOM	221	QG	PIPO	12	4.065	3.761	-5.671	1.00	0.00
ATOM	222	CD	PIPO	12	3.841	2.590	-4.362	1.00	0.00
ATOM	223	2HD	PIPO	12	4.109	1.664	-4.870	1.00	0.00
ATOM	224	3HD	PIPO	12	2.796	2.825	-4.563	1.00	0.00
ATOM	225	QD	PIPO	12	3.453	2.245	-4.717	1.00	0.00
ATOM	226	1HE	PIPO	12	5.092	2.188	-2.644	1.00	0.00

ATOM	227	2HE	PIPO	12	3.416	1.613	-2.481	1.00	0.00
ATOM	228	QE	PIPO	12	4.254	1.900	-2.563	1.00	0.00
ATOM	229	C	PIPO	12	2.784	5.590	-3.419	1.00	0.00
ATOM	230	O	PIPO	12	2.638	6.784	-3.132	1.00	0.00
ATOM	231	O1'	PHEO	13	1.910	4.937	-4.162	1.00	0.00
ATOM	232	CA	PHEO	13	0.506	5.331	-4.230	1.00	0.00
ATOM	233	HA	PHEO	13	0.377	6.153	-4.957	1.00	0.00
ATOM	234	CB	PHEO	13	0.041	5.795	-2.815	1.00	0.00
ATOM	235	2HB	PHEO	13	0.897	5.747	-2.115	1.00	0.00
ATOM	236	QB	PHEO	13	0.897	5.747	-2.115	1.00	0.00
ATOM	237	QD	PHEO	13	-0.671	7.343	-2.735	1.00	0.00
ATOM	238	QE	PHEO	13	-1.764	9.547	-2.661	1.00	0.00
ATOM	239	QR	PHEO	13	-1.437	8.887	-2.683	1.00	0.00
ATOM	240	CG	PHEO	13	-0.581	7.196	-2.726	1.00	0.00
ATOM	241	CD1	PHEO	13	-1.678	7.413	-1.884	1.00	0.00
ATOM	242	1HD	PHEO	13	-2.073	6.603	-1.286	1.00	0.00
ATOM	243	CE1	PHEO	13	-2.303	8.654	-1.851	1.00	0.00
ATOM	244	1HE	PHEO	13	-3.168	8.803	-1.220	1.00	0.00
ATOM	245	CZ	PHEO	13	-1.826	9.693	-2.647	1.00	0.00
ATOM	246	HZ	PHEO	13	-2.316	10.655	-2.625	1.00	0.00
ATOM	247	CE2	PHEO	13	-0.727	9.488	-3.480	1.00	0.00
ATOM	248	2HE	PHEO	13	-0.361	10.292	-4.101	1.00	0.00
ATOM	249	CD2	PHEO	13	-0.106	8.242	-3.521	1.00	0.00
ATOM	250	2HD	PHEO	13	0.732	8.084	-4.185	1.00	0.00
ATOM	251	C	PHEO	13	-0.363	4.168	-4.649	1.00	0.00
ATOM	252	O	PHEO	13	-1.561	4.056	-4.267	1.00	0.00

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