MTT Raw data

HepG2 48h										
	C	100	200	300	400	500				
	0.6814	0.6029	0.5159	0.4792	0.3538	0.2831				
	0.778	0.6603	0.512	0.4754	0.4538	0.2982				
	0.7074	0.5293	0.4611	0.4398	0.3995	0.303				
	1	0.884796	0.757118	0.703258	0.519225	0.415468				
	1	0.848715	0.658098	0.611054	0.58329	0.38329				
	1	0.748233	0.651824	0.621713	0.564744	0.428329			AVERAGE	STDEV.S
								IC50		
	100	88.4796	75.71177	70.3258	51.92251	41.54682		435.219		
	100	84.87147	65.80977	61.1054	58.32905	38.32905		411.337	436.543	25.8934
	100	74.8233	65.18236	62.17133	56.47441	42.83291		463.073		
SKOV-3 48h										
	C	100	200	300	400	500				
	0.6725	0.5523	0.4783	0.3567	0.3016	0.2021				
	0.7855	0.639	0.5442	0.3998	0.2884	0.2142				
	0.6789	0.5866	0.4801	0.3685	0.2693	0.2311				
	1	0.821264	0.711227	0.530409	0.448476	0.30052				
	1	0.813495	0.692807	0.508975	0.367155	0.272693				
	1	0.864045	0.707173	0.54279	0.396671	0.340404			AVERAGE	STDEV.S
								IC50		
	100	82.12639	71.12268	53.04089	44.84758	30.05204		322.851		
	100	81.34946	69.28071	50.89752	36.71547	27.26926		291.662	313.8687	19.34814
	100	86.40448	70.71734	54.27898	39.66711	34.04036		327.093		
A2780 48h										
	C	100	200	300	400	500				
	1.0226	0.906	0.7782	0.5607	0.4291	0.3524				
	1.0641	0.9069	0.8958	0.6028	0.4344	0.3529				
	0.9995	0.8848	0.8764	0.6075	0.4449	0.3123				
	1	0.885977	0.761001	0.548308	0.419617	0.344612				
	1	0.85227	0.841838	0.566488	0.408232	0.331642				
	1	0.885243	0.876838	0.607804	0.445123	0.312456			AVERAGE	STDEV.S
								IC50		
	100	88.59769	76.10014	54.83082	41.96167	34.46118		344.271		
	100	85.22695	84.18382	56.64881	40.82323	33.16418		351.444	354.6067	12.2277
	100	88.52426	87.68384	60.78039	44.51226	31.24562		368.105		
MCF-7 48h										
	C	50	100	150	200	250				
	0.9701	0.8275	0.7391	0.6365	0.3304	0.144				
	0.8862	0.7892	0.6866	0.5087	0.3098	0.1141				
	0.9495	0.796	0.7328	0.5284	0.2777	0.1062				
	1	0.853005	0.76188	0.656118	0.340583	0.148438				
	1	0.890544	0.774769	0.574024	0.349582	0.128752				
	1	0.838336	0.771775	0.556503	0.29247	0.111848			AVERAGE	STDEV.S
								IC50		
	100	85.30048	76.18802	65.61179	34.05834	14.84383		152.946		
	100	89.05439	77.47687	57.40239	34.95825	12.8752		149.913	147.5873	6.825431
	100	83.8336	77.17746	55.65034	29.24697	11.18483		139.903		

RT-PCR Raw data

		1		
	GADPH	VEGF	MMP9	Bcl-2
0	16.757	21.546	21.124	18.511
200	16.964	21.157	19.759	16.689
300	16.472	19.5	15.454	11.074
0	1	1.285791	1.260608	1.104673
200	1	1.24717	1.164761	0.983789
300	1	1.183827	0.938198	0.672292
0		1	1	1
200		0.969964	0.923968	0.890571
300		0.920699	0.744243	0.60859
0		100	100	100
200		96.99636	92.39677	89.05708
300		92.06995	74.42429	60.85897

		2		
	GADPH	VEGF	MMP9	Bcl-2
0	16.597	21.599	19.8289	21.03039
200	16.258	20.015	17.49089	17.88341
300	15.59	18.098	13.44504	11.47748
0	1	1.30138	1.194728	1.26712
200	1	1.231086	1.075833	1.099976
300	1	1.160872	0.862414	0.736208
0		1	1	1
200		0.945985	0.900484	0.868091
300		0.892032	0.72185	0.581009
0		100	100	100
200		94.59854	90.04835	86.80915
300		89.2032	72.185	58.10088

		3		
	GADPH	VEGF	MMP9	Bcl-2
0	17.2579	21.8269	21.5297	19.80413
200	17.4149	20.8691	19.1938	17.43541
300	16.9874	19.1891	15.2704	11.5258
0	1	1.264748	1.247527	1.14754
200	1	1.198347	1.102148	1.001178
300	1	1.129608	0.898925	0.678491
0		1	1	1
200		0.947499	0.883466	0.872456
300		0.893148	0.720566	0.591257
0		100	100	100
200		94.74987	88.34662	87.24556
300		89.31483	72.05655	59.12571

						AVERAGE	STDEV.S
Bcl-2	0	100	100	100		100	0
	200	89.05708	86.80915	87.24556		87.70392936	1.192003811
	300	60.85897	58.10088	59.12571		59.36185059	1.394125519

						AVERAGE	STDEV.S
MMP9	0	100	100	100		100	0
	200	92.39677	90.04835	88.34662		90.26391419	2.033660486
	300	74.42429	72.185	72.05655		72.8886133	1.331484859

						AVERAGE	STDEV.S
VEGF	0	100	100	100		100	0
	200	96.99636	94.59854	94.74987		95.44825615	1.342830789
	300	92.06995	89.2032	89.31483		90.19599268	1.623854241

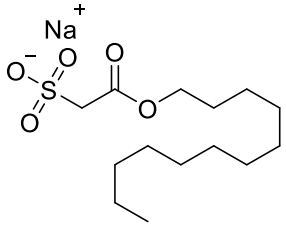
Scratch Raw data

		1				2				3	
	0	24	48		0	24	48		0	24	48
0	4580	3320	2413	0	4839	3628	2385	0	4769	3468	2465
100	5530	4258	3021	100	5624	4588	2730	100	5251	4171	2909
200	5390	4450	3454	200	5312	4419	3660	200	5585	4699	4096
300	6904	6582	6468	300	6935	6686	6441	300	7110	6902	6524
400	6462	6379	6381	400	6598	6563	6555	400	6499	6354	6389
0	1	0.275109	0.473144	0	1	0.250258	0.50713	0	1	0.272804	0.48312
100	1	0.230018	0.453707	100	1	0.184211	0.51458	100	1	0.205675	0.44601
200	1	0.174397	0.359184	200	1	0.16811	0.310994	200	1	0.158639	0.266607
300	1	0.04664	0.063152	300	1	0.035905	0.071233	300	1	0.029255	0.082419
400	1	0.012844	0.012535	400	1	0.005305	0.006517	400	1	0.022311	0.016926
	0	1	1		0	1	1		0	1	1
	100	0.836097	0.958919		100	0.736082	1.014692		100	0.753931	0.923187
	200	0.633919	0.759142		200	0.671746	0.613244		200	0.581515	0.551844
	300	0.169531	0.133473		300	0.143471	0.140463		300	0.107237	0.170598
	400	0.046688	0.026493		400	0.021197	0.012851		400	0.081785	0.035034
		24	48			24	48			24	48
	0	100	100		0	100	100		0	100	100
	100	83.60975	95.89194		100	73.60815	101.4692		100	75.39313	92.31871
	200	63.39194	75.91422		200	67.17457	61.32436		200	58.15145	55.18441
	300	16.95314	13.34726		300	14.34711	14.04629		300	10.72368	17.05976
	400	4.668809	2.64926		400	2.119665	1.285101		400	8.178459	3.50341

Apopotosis Raw data

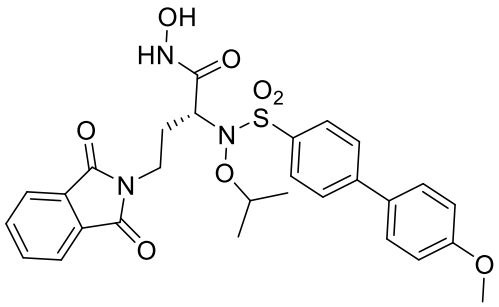
0	100	200	300	400	500
5.07	5.84	14.95	19.88	45.1	60.6
7.35	14.31	16.06	19.74	46	58.3
6.1	12.85	15.42	19.1	43.7	54.2

SNH Structural



SNH

EN140 Structural

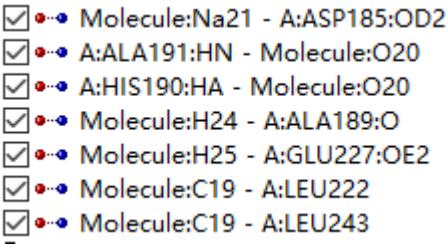


EN140

Interaction and energy of SNH and MMP9

ForcefieldBase CHARMm	TopHits	-CDOCKER_ENERGY	-CDOCKER_INTERACTION_ENERGY	POSE_NUMBER
	6	55.1987	53.1878	1
	6	54.9668	54.9119	2
	6	52.3698	54.3461	3
	6	51.3626	50.4906	4
	6	51.1261	50.0855	5
	6	50.3972	47.6168	6

Analysis of the Interaction Bond between Posture 2 and MMP9. Molecule in the figure represents SNH molecule.



Report-EN140 Calculate Interaction Energy

Name	Forcefield	Interaction Energy (kcal/mol)	VDW Interaction Energy (kcal/mol)	Electrostatic Interaction Energy (kcal/mol)
4WZV_prep	4WZV_prep-CHARMm	-90.6301423	-44.2597691	-46.3703732

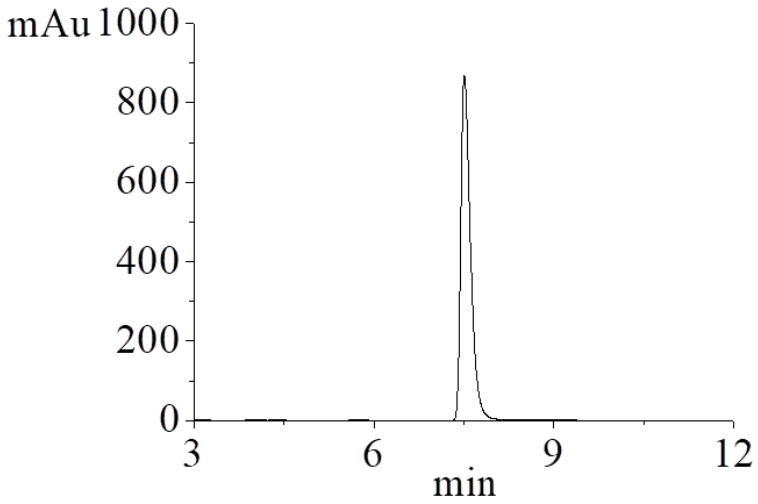
Report-SNH Calculate Interaction Energy

Name	Forcefield	Interaction Energy (kcal/mol)	VDW Interaction Energy (kcal/mol)	Electrostatic Interaction Energy (kcal/mol)
SNH_model_1	SNH_model_1-CHARMm	-83.2091424	-40.6743099	-42.5348325

Report-SNH Calculate Binding Energy

Ligand Name	Binding Energy (kcal/mol)	Ligand Energy (kcal/mol)	Protein Energy (kcal/mol)	Complex Energy (kcal/mol)	Entropic Energy (kcal/mol)
Molecule	-172.7831	-12.1012	-4723.1825	-4908.0668	20.5935

High Performance Liquid Chromatography



In vivo experiment data

n=5	PBS group	SNH treated group (300mg/kg)	Cyclophosphamide treated group (25mg/kg)
1	1. 545	0.718	0. 138
2	1. 476	0.759	0. 374
3	0. 953	0.401	0. 149
4	0. 906	0.527	0. 157
5	1. 427	0.699	0. 279
	6. 307	3. 104	1. 097
	1. 2614	0. 6208	0. 2194
Tumor inhibitory rates		0. 507848422	0. 826066276