

Supplementary Information

PyOxP and PyOxB: the Oxyma-based novel family of phosphonium salts

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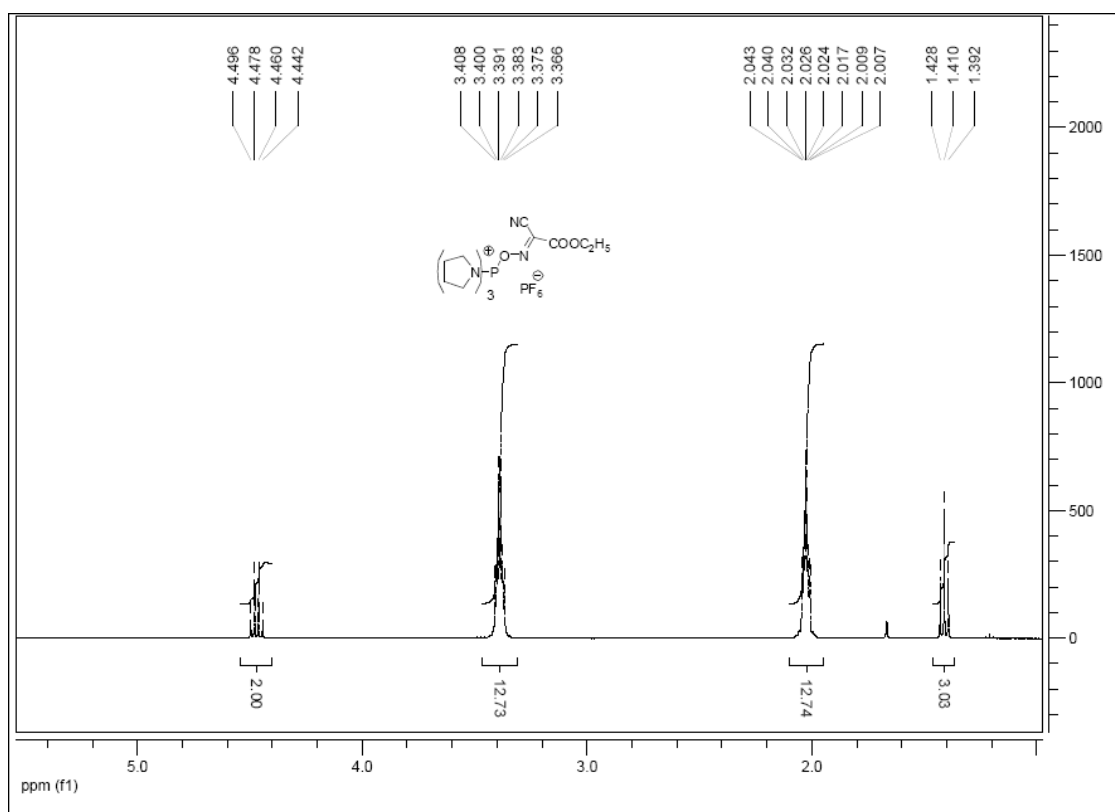
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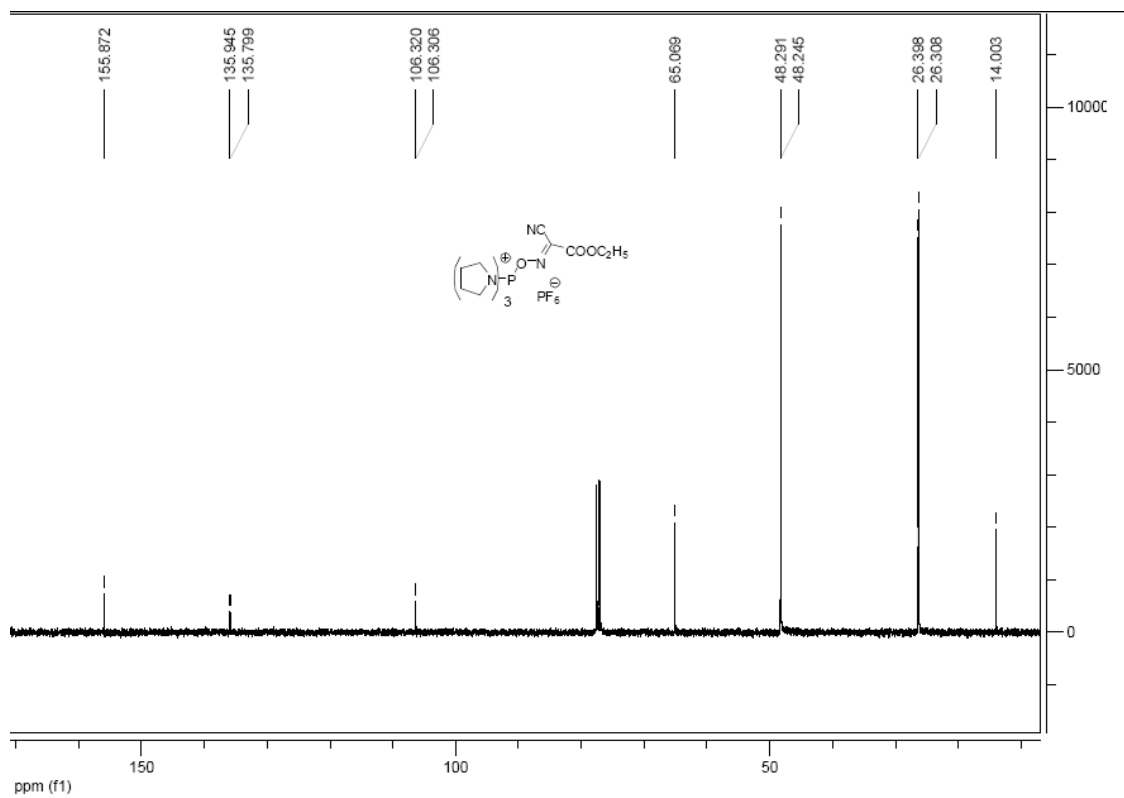
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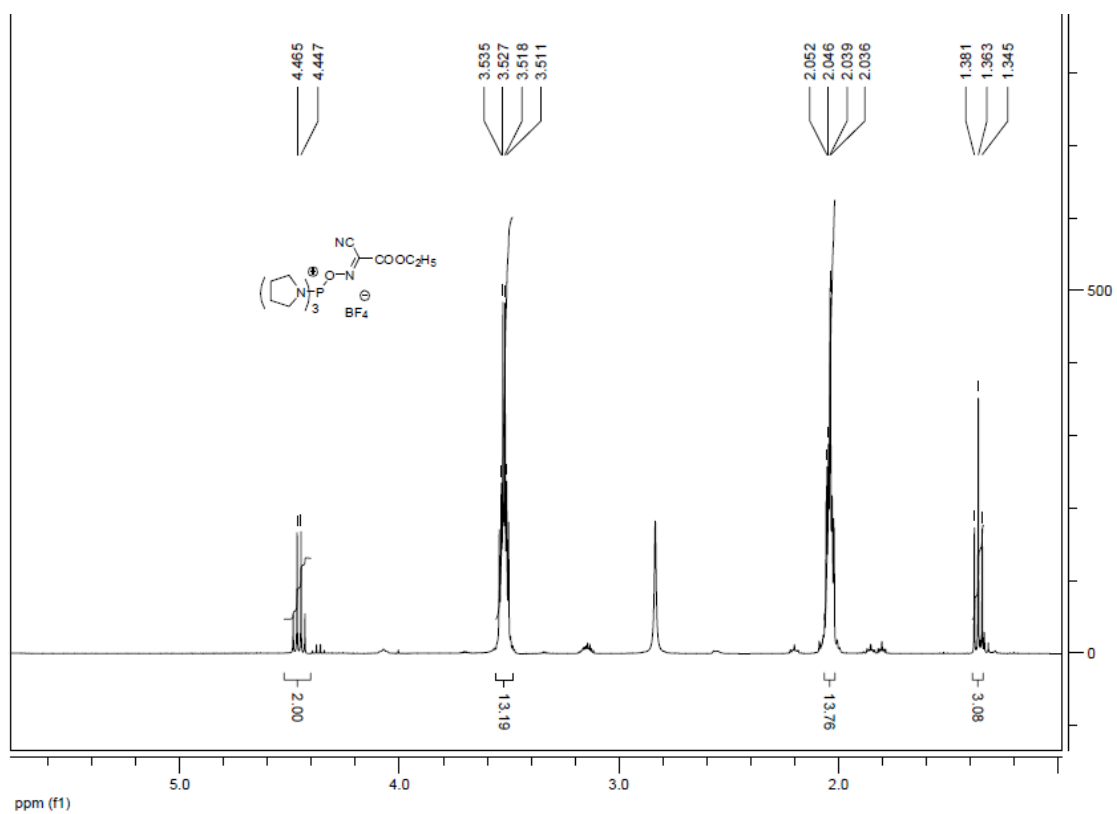
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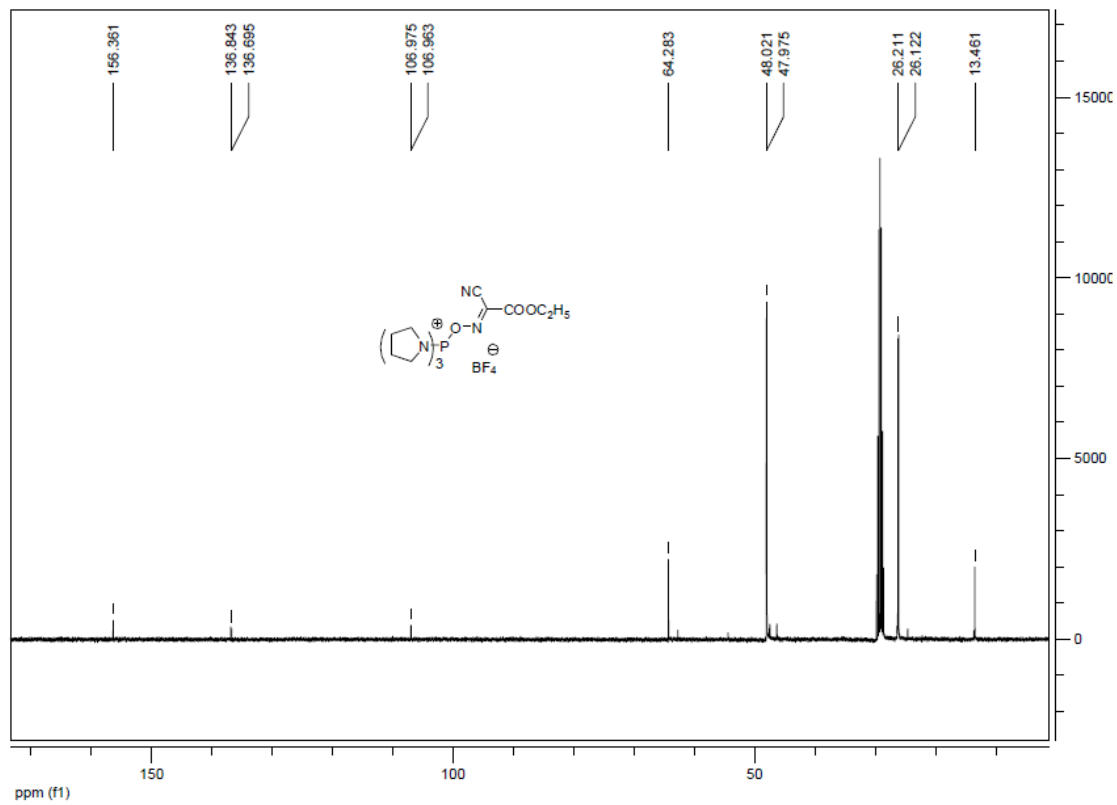
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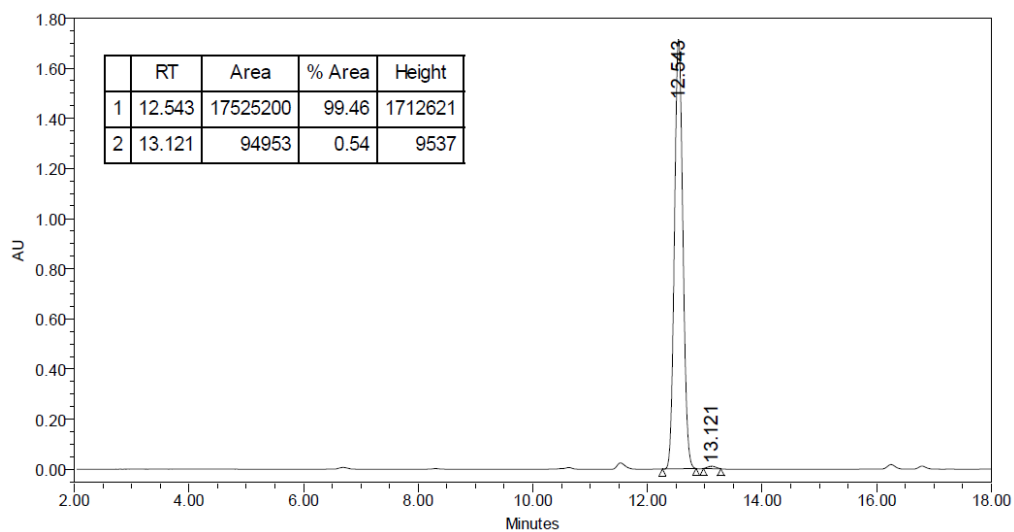




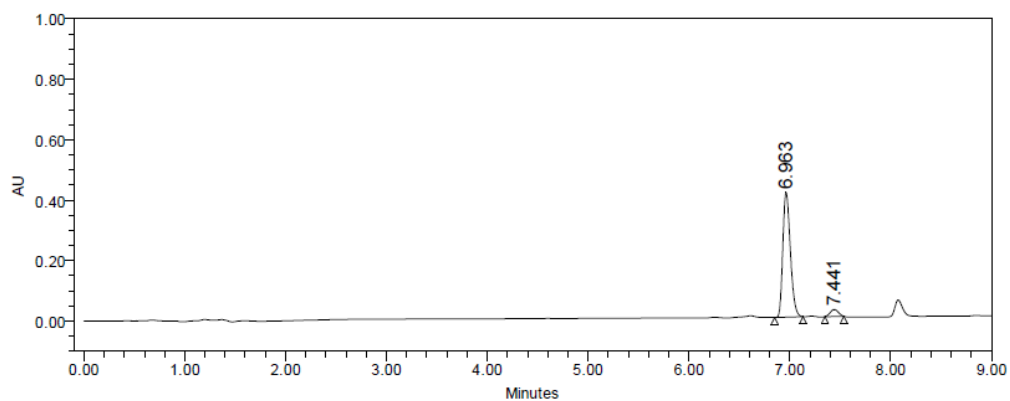




• **Z-Phg-Pro-NH₂ (Solution phase, PyOxP)**

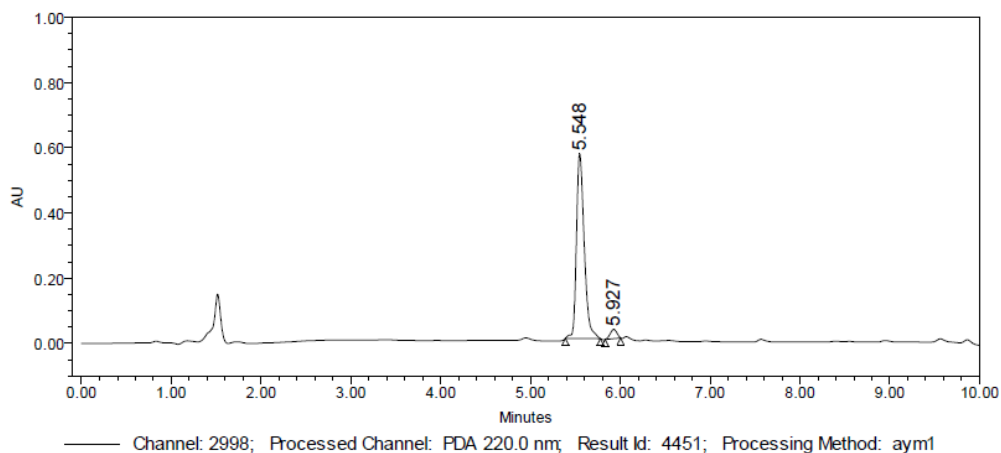


• **Z-Phe-Val-Pro-NH₂ (Solution phase, PyOxP)**



	RT	Area	% Area	Height
1	6.963	2146215	94.26	412808
2	7.441	130789	5.74	23430

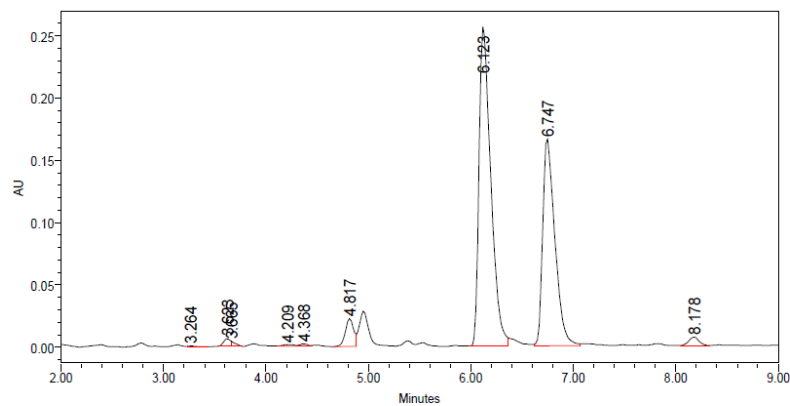
• **Z-Gly-Gly-Val-Pro-Gly-Gly-NH₂ (TMP, PyOxP)**



**Processed Channel Descr.: PDA
220.0 nm**

	Processed Channel Descr.	RT	Area	% Area
1	PDA 220.0 nm	5.548	3406698	95.86
2	PDA 220.0 nm	5.927	147132	4.14

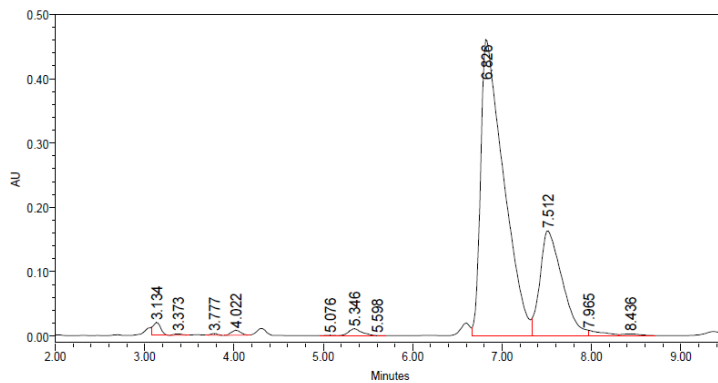
• **8,9-Aib-enkephalin decapeptide (PyBOP)**



Peak Results

	RT	Area	Height	Total Area	% Area
1	3.264	3132	575	3642306	0.09
2	3.623	27849	6079	3642306	0.76
3	3.665	9821	3591	3642306	0.27
4	4.209	7593	971	3642306	0.21
5	4.368	10408	1783	3642306	0.29
6	4.817	122722	21997	3642306	3.37
7	6.123	2043712	258129	3642306	56.11
8	6.747	1371699	165531	3642306	37.66
9	8.178	45370	6754	3642306	1.25

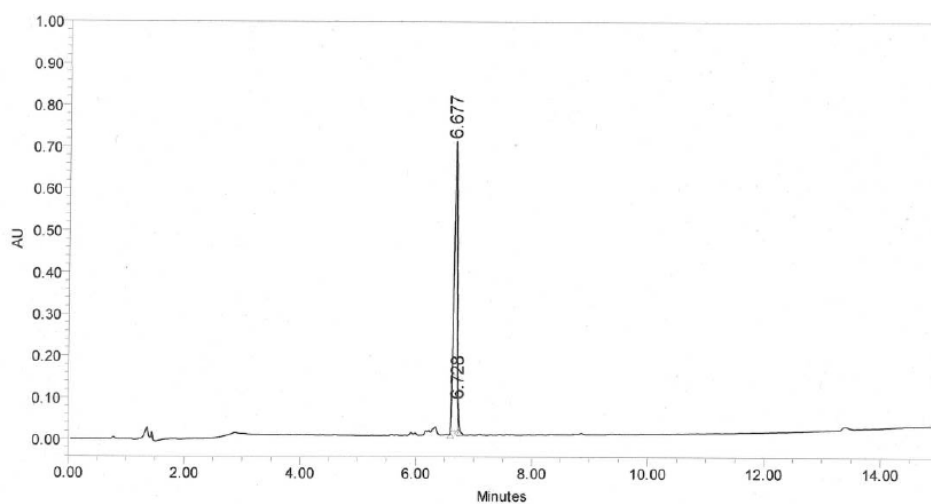
- **3,4-Aib-enkephalin decapeptide (PyClock)**



Peak Results

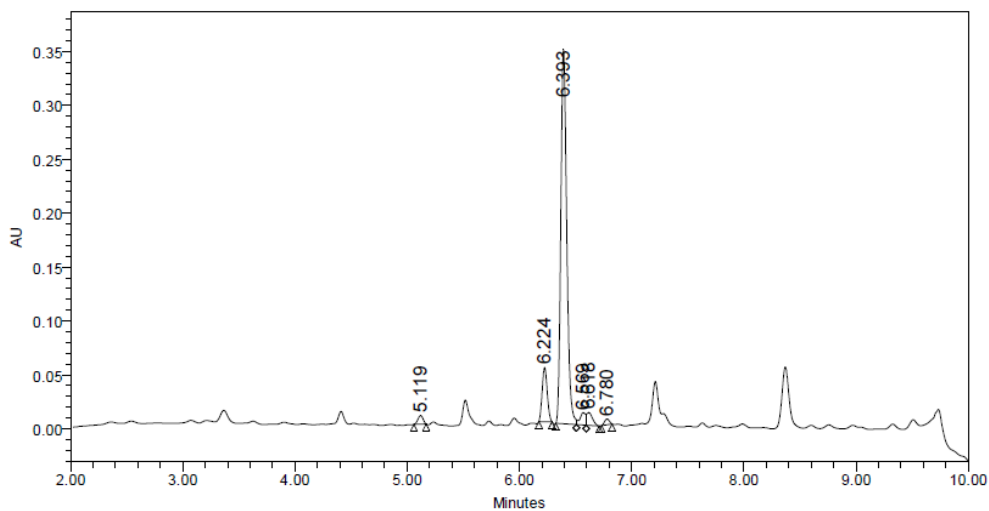
	RT	Area	Height	Total Area	% Area
1	3.134	115458	19562	11421075	1.01
2	3.373	12728	1990	11421075	0.11
3	3.777	14301	2600	11421075	0.13
4	4.022	53650	7427	11421075	0.47
5	5.076	6530	873	11421075	0.06
6	5.346	116747	10894	11421075	1.02
7	5.598	760	235	11421075	0.01
8	6.826	8169101	464691	11421075	71.53
9	7.512	2604617	163023	11421075	24.56
10	7.965	89971	8235	11421075	0.79
11	8.436	37211	2692	11421075	0.33

- **Aib-enkephalin pentapeptide (PyOxP)**



	RT	Area	% Area	Height
1	6.677	2762192	98.55	693691
2	6.728	40643	1.45	67262

- **Aib-ACP decapeptide (PyOxP)**



	RT	Area	% Area	Height
1	5.119	25692	1.66	8086
2	6.224	156714	10.12	50323
3	6.393	1265508	81.75	347229
4	6.569	41255	2.66	11538
5	6.618	42908	2.77	11883
6	6.780	15982	1.03	5421