

Supporting Information

Hassane Sadou Yaye^{1,2a}, Maher Karoui^{1a}, Philippe-Henri Secrétan^{1,3}, Noureddine Ghermani⁴, Jean-Michel Gillet⁵, Fathi Safta⁶, Najet Yagoubi¹ and Bernard Do^{1,3*}

¹ University of Paris-Sud, Department of Pharmacy, Laboratory "Matériaux et Santé" EA 401, 5 rue Jean Baptiste Clément, 92296 Châtenay-Malabry, France.

² Assistance Publique-Hôpitaux de Paris, Groupe Hospitalier Pitié-Salpêtrière, Department of Pharmacy, 47-83 Boulevard de l'Hôpital, 75013 Paris, France.

³ Assistance Publique-Hôpitaux de Paris, Groupe Hospitalier Henri Mondor, Department of Pharmacy, 1 Avenue du Maréchal de Lattre de Tassigny, 94010 Créteil, France.

⁴ University of Paris-Sud, Department of Pharmacy, CNRS UMR 8612 Institut Galien Paris-Sud, LabEx LERMIT, 5, rue Jean Baptiste Clément, 92296 Châtenay-Malabry, France.

⁵ University of Paris-Saclay, CNRS UMR 8580, Laboratory "Structures Propriétés et Modélisation des Solides" (SPMS), Grande Voie des Vignes, 92295 Châtenay-Malabry, France.

⁶ University of Monastir, Department of Pharmacy, Analytical Chemistry Laboratory, rue Ibn Sina, 5000 Monastir, Tunisia.

^a The first 2 authors contributed equally to this study and are therefore considered as first authors.

* Corresponding author. Email: Bernard.do@u-psud.fr; Tel: +3362306275.

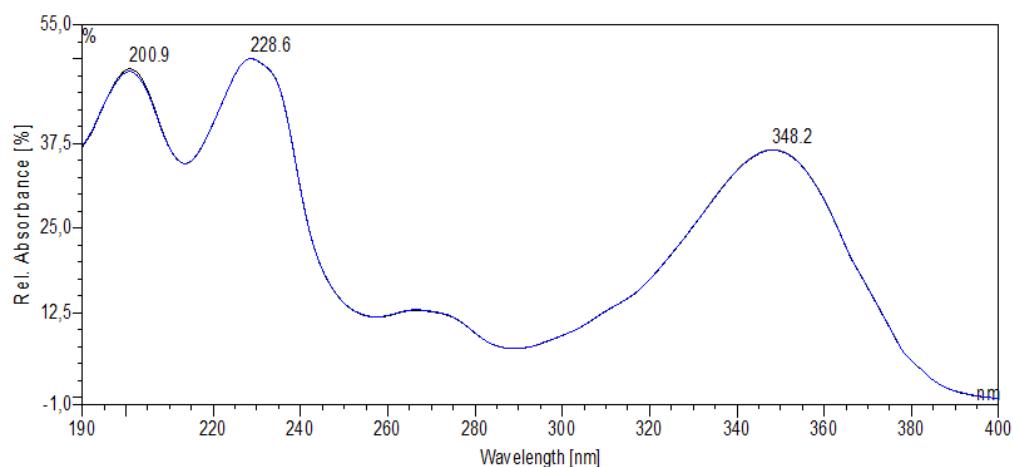


Fig. S1. UV spectrum of 25 µg mL⁻¹ RALTI in aqueous solution.

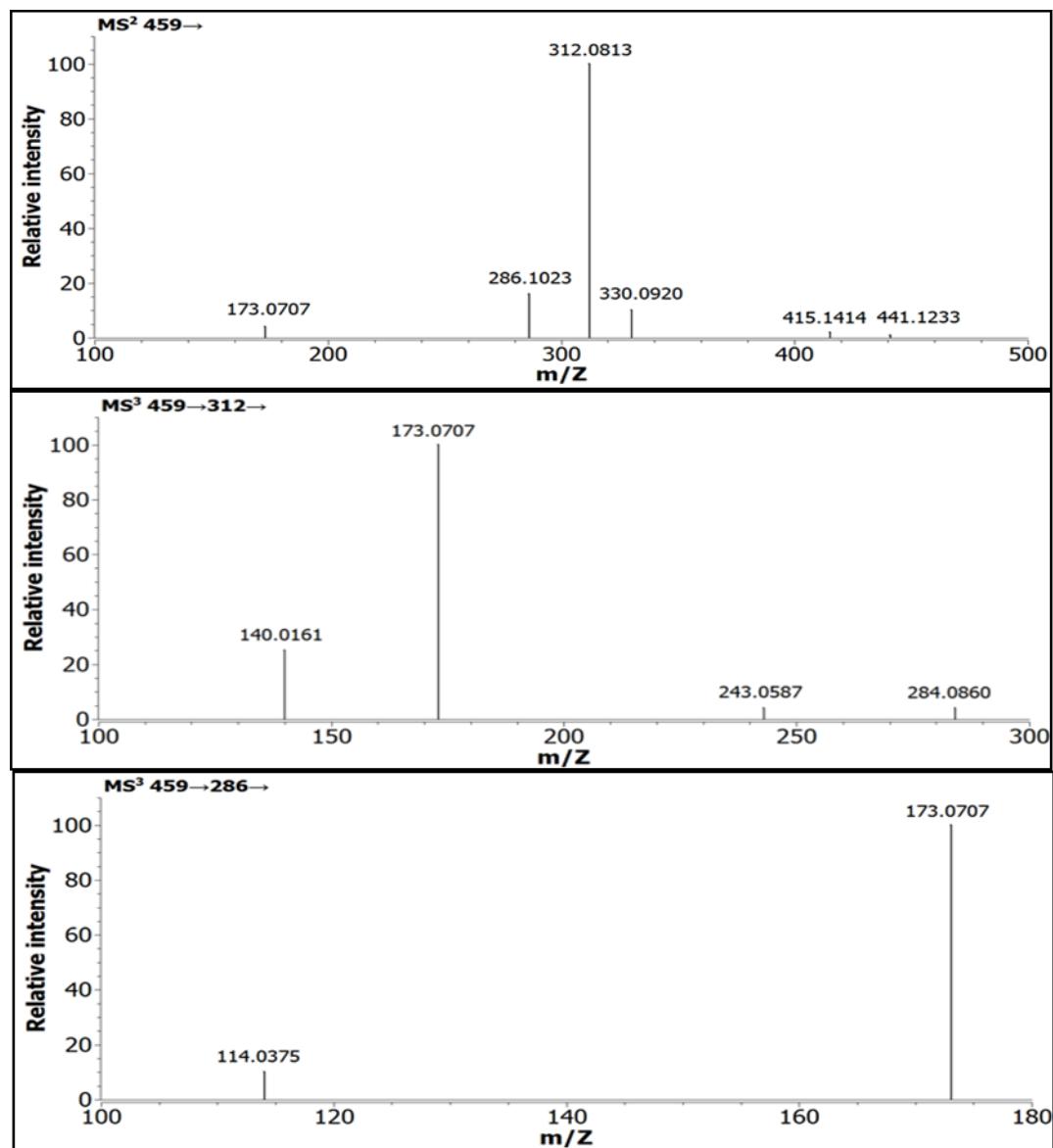


Fig. S2. High-resolution MSⁿ mass spectra of protonated RALTI.

Table S1. Photoinduced electron and energy transfer reactions and the corresponding evaluating criteria

Reaction	Evaluating criteria for spontaneous reactions
<u>Electron transfer</u>	
I. RALTI _{S_{1/T₁}} + ³ O ₂ → RALTI ⁺ + O ₂ ⁻	ΔG ₁ = AEA(³ O ₂) + VIE _{S_{1/T₁}} < 0
II. RALTI _{S_{1/T₁}} + RALTI _{S₀} → RALTI ⁺ + RALTI ⁻	ΔG ₂ = VEA _{S₀} + VIE _{S_{1/T₁}} < 0
III. RALTI _{S_{1/T₁}} + RALTI _{S_{1/T₁}} → RALTI ⁺ + RALTI ⁻	ΔG ₃ = VEA _{S_{1/T₁}} + VIE _{S₀} < 0 ^a
IV. RALTI ⁻ + ³ O ₂ → RALTI _{S₀} + O ₂ ⁻	ΔG ₄ = VEA _{S_{1/T₁}} + VIE _{S_{1/T₁}} < 0
IV. RALTI ⁻ + ³ O ₂ → RALTI _{S₀} + O ₂ ⁻	ΔG ₅ = AEA(³ O ₂) + VIE _{S₀ (RALTI⁻)} < 0 ^b
<u>Energy transfer</u>	
VI. RALTI _{S₁} + ³ O ₂ (³ Σ _g ⁻) → RALTI _{T₁} + ¹ O ₂ (¹ Σ _g ⁺)	E _{S₁} - E _{T₁} > E _Σ ^c
V. RALTI _{S₁} + ³ O ₂ (³ Σ _g ⁻) → RALTI _{T₁} + ¹ O ₂ (¹ Δ _g)	E _{S₁} - E _{T₁} > E _Δ ^d
VII. RALTI _{T₁} + ³ O ₂ (³ Σ _g ⁻) → RALTI _{S₀} + ¹ O ₂ (¹ Σ _g ⁺)	E _{T₁} > E _Σ
VIII. RALTI _{T₁} + ³ O ₂ (³ Σ _g ⁻) → RALTI _{S₀} + ¹ O ₂ (¹ Δ _g)	E _{T₁} > E _Δ

^a ΔG₂ and ΔG₃ are for the electron transfer reactions with RALTI as electron acceptor and donor, respectively. ^b VIE_{S₀ (RALTI⁻)} = -VEA_{S₀ (RALTI⁻)}. ^c E_{S₁} and E_{T₁} are the lowest singlet and triplet excitation energies of RALTI, respectively; E_Σ is the excitation energy of ³O₂(³Σ_g⁻) to ¹O₂(¹Σ_g⁺). ^d E_Δ is the excitation energy of ³O₂(³Σ_g⁻) to ¹O₂(¹Δ_g)

Table S2. Relative retention times (rRTs), accurate masses with errors, elemental compositions and MSⁿ product ions of raltitrexed and its photoproducts.

Compound	MS ⁿ mode	Best possible elemental formula	Accurate mass m/z	Theoretical mass m/z	Relative error (ppm)	Relative Retention time (raltitrexed's retention time : 16.02 min)
Raltitrexed	Precursor ion	C ₂₁ H ₂₃ N ₄ O ₆ S ⁺	459.1330	459.1332	-0.44	1
	MS ² (459 →)	C ₂₁ H ₂₁ N ₄ O ₅ S ⁺	441.1233	441.1227	1.36	
	MS ² (459 →)	C ₂₀ H ₂₃ N ₄ O ₄ S ⁺	415.1414	415.1434	-4.81	
	MS ² (459 →)	C ₁₆ H ₁₆ N ₃ O ₃ S ⁺	330.0920	330.0907	3.94	
	MS ² (459 →)	C ₁₆ H ₁₄ N ₃ O ₂ S ⁺	312.0813	312.0801	3.85	
	MS ² (459 →)	C ₁₅ H ₁₆ N ₃ OS ⁺	286.1023	286.1009	4.89	
	MS ² (459 →)	C ₁₀ H ₉ N ₂ O ⁺	173.0707	173.0709	-1.16	
	MS ³ (459→312→)	C ₁₅ H ₁₄ N ₃ OS ⁺	284.0860	284.0852	2.82	
	MS ³ (459→312→)	C ₁₃ H ₁₁ N ₂ OS ⁺	243.0592	243.0587	2.06	
	MS ³ (459→312→)	C ₁₀ H ₉ N ₂ O ⁺	173.0707	173.0709	-1.16	
	MS ³ (459→312→)	C ₆ H ₆ NOS ⁺	140.0161	140.0164	-2.14	
	MS ³ (459→286→)	C ₁₀ H ₉ N ₂ O ⁺	173.0707	173.0709	-1.16	
	MS ³ (459→286→)	C ₅ H ₈ NS ⁺	114.0375	114.0372	2.63	
P-1	Precursor ion	C ₁₁ H ₁₄ N ₃ O ⁺	204.1132	204.1131	0.49	0.167
	MS ² (204 →)	C ₁₀ H ₉ N ₂ O ⁺	173.0709	173.0709	0.00	
	MS ² (204 →)	C ₈ H ₆ NO ⁺	132.0446	132.0443	2.27	
P-2	Precursor ion	C ₁₀ H ₁₁ N ₂ O ₂ ⁺	191.0817	191.0815	1.05	0.169
	MS ² (191 →)	C ₁₀ H ₉ N ₂ O ⁺	173.0705	173.0709	-2.31	
	MS ² (191 →)	C ₉ H ₉ N ₂ O ⁺	161.0710	161.0709	0.62	
	MS ² (191 →)	C ₈ H ₆ NO ⁺	132.0446	132.0443	2.27	
P-3	Precursor ion	C ₁₅ H ₁₆ N ₃ O ₄ ⁺	302.1144	302.1135	2.98	0.257
	MS ² (302 →)	C ₁₅ H ₁₄ N ₃ O ₃ ⁺	284.1036	284.1029	2.46	
	MS ² (302 →)	C ₁₄ H ₁₁ N ₂ O ₄ ⁺	271.0717	271.0713	1.48	
	MS ² (302 →)	C ₁₄ H ₁₆ N ₃ O ₂ ⁺	258.1239	258.1237	0.77	
	MS ² (302 →)	C ₁₄ H ₉ N ₂ O ₃ ⁺	253.0611	253.0607	1.58	
	MS ² (302 →)	C ₁₃ H ₁₁ N ₂ O ₂ ⁺	227.0818	227.0815	1.32	
	MS ² (302 →)	C ₁₀ H ₇ N ₂ O ₂ ⁺	187.0511	187.0520	-4.80	
	MS ² (302 →)	C ₉ H ₉ N ₂ O ⁺	161.0712	161.0709	1.86	
	MS ² (302 →)	C ₆ H ₈ NO ₃ ⁺	142.0501	142.0498	2.11	
	MS ³ (302→284→)	C ₁₄ H ₁₄ N ₃ O ₂ ⁺	256.1086	256.1080	2.34	
P-4	Precursor ion	C ₁₄ H ₁₆ N ₃ O ₄ ⁺	290.1142	290.1135	2.41	0.288
	MS ² (290 →)	C ₁₃ H ₁₆ N ₃ O ₂ ⁺	246.1241	246.1237	1.63	

	MS^2 (290 →)	$\text{C}_{10}\text{H}_9\text{N}_2\text{O}_2^+$	189.0662	189.0658	2.12	
	MS^2 (290 →)	$\text{C}_{10}\text{H}_9\text{N}_2\text{O}^+$	173.0712	173.0709	1.73	
	MS^3 (290 → 246 →)	$\text{C}_{12}\text{H}_{11}\text{N}_2\text{O}_2^+$	215.0820	215.0815	2.32	
	MS^3 (290 → 246 →)	$\text{C}_{11}\text{H}_{11}\text{N}_2\text{O}^+$	187.0872	187.0866	3.21	
	MS^3 (290 → 246 →)	$\text{C}_{10}\text{H}_9\text{N}_2\text{O}^+$	173.0712	173.0709	1.73	
	MS^3 (290 → 246 →)	$\text{C}_9\text{H}_9\text{N}_2\text{O}^+$	161.0717	161.0709	4.97	
P-5	Precursor ion	$\text{C}_{10}\text{H}_9\text{N}_2\text{O}_3^+$	205.0604	205.0608	-1.95	0.477
	MS^2 (205 →)	$\text{C}_{10}\text{H}_6\text{NO}_3^+$	188.0348	188.0342	3.19	
	MS^2 (205 →)	$\text{C}_8\text{H}_6\text{NO}_3^+$	164.0345	164.0342	1.83	
	MS^2 (205 →)	$\text{C}_9\text{H}_9\text{N}_2\text{O}^+$	161.0714	161.0709	3.10	
	MS^2 (205 →)	$\text{C}_8\text{H}_4\text{NO}_2^+$	146.0231	146.0236	-3.42	
P-6	Precursor ion	$\text{C}_{10}\text{H}_9\text{N}_2\text{O}_2^+$	189.0654	189.0658	-2.12	0.667
	MS^2 (189 →)	$\text{C}_9\text{H}_9\text{N}_2\text{O}^+$	161.0714	161.0709	3.10	
	MS^2 (189 →)	$\text{C}_8\text{H}_6\text{NO}_2^+$	148.0397	148.0393	2.70	
P-7	Precursor ion	$\text{C}_{21}\text{H}_{23}\text{O}_8\text{N}_4\text{S}^+$	491.1228	491.1231	-0.61	0.692
	MS^2 (491 →)	$\text{C}_{21}\text{H}_{21}\text{N}_4\text{O}_7\text{S}^+$	473.1134	473.1126	1.69	
	MS^2 (491 →)	$\text{C}_{20}\text{H}_{21}\text{N}_4\text{O}_6\text{S}^+$	445.1162	445.1176	-3.15	
	MS^2 (491 →)	$\text{C}_{20}\text{H}_{19}\text{N}_4\text{O}_5\text{S}^+$	427.1084	427.1071	3.04	
	MS^2 (491 →)	$\text{C}_{15}\text{H}_{14}\text{N}_3\text{O}_3\text{S}^+$	316.0762	316.0750	3.80	
	MS^2 (491 →)	$\text{C}_{11}\text{H}_{12}\text{N}_3\text{O}^+$	202.0975	202.0974	0.49	
	MS^2 (491 →)	$\text{C}_{10}\text{H}_9\text{N}_2\text{O}^+$	173.0706	173.0709	-1.73	
	MS^3 (491 → 473 →)	$\text{C}_{20}\text{H}_{21}\text{N}_4\text{O}_6\text{S}^+$	445.1182	445.1176	1.35	
	MS^3 (491 → 473 →)	$\text{C}_{20}\text{H}_{19}\text{N}_4\text{O}_5\text{S}^+$	427.1079	427.1070	2.11	
	MS^3 (491 → 473 →)	$\text{C}_{16}\text{H}_{14}\text{N}_3\text{O}_4\text{S}^+$	344.0699	344.0699	0.00	
	MS^3 (491 → 473 →)	$\text{C}_{16}\text{H}_{12}\text{N}_3\text{O}_3\text{S}^+$	326.0617	326.0594	-0.30	
	MS^3 (491 → 473 →)	$\text{C}_{15}\text{H}_{12}\text{N}_3\text{O}_2^+$	266.0928	266.0924	1.50	
	MS^3 (491 → 473 →)	$\text{C}_{14}\text{H}_{14}\text{N}_3\text{O}^+$	240.1134	240.1131	1.25	
	MS^3 (491 → 473 →)	$\text{C}_{10}\text{H}_9\text{N}_2\text{O}^+$	173.0706	173.0709	-1.73	
	MS^3 (491 → 316 →)	$\text{C}_{14}\text{H}_{14}\text{N}_3\text{O}_2^+$	256.1086	256.1080	2.34	
P-8	Precursor ion	$\text{C}_{22}\text{H}_{23}\text{N}_2\text{O}_6\text{S}^+$	471.1321	471.1323	-0.42	0.840
	MS^2 (471 →)	$\text{C}_{17}\text{H}_{16}\text{N}_3\text{O}_3\text{S}^+$	342.0918	342.0907	3.22	
	MS^2 (471 →)	$\text{C}_{17}\text{H}_{14}\text{N}_3\text{O}_2\text{S}^+$	324.0814	324.0801	4.01	
	MS^2 (471 →)	$\text{C}_{12}\text{H}_{15}\text{N}_2\text{O}_5\text{S}^+$	299.0707	299.0696	3.68	
	MS^3 (471 → 342 →)	$\text{C}_{16}\text{H}_{16}\text{N}_3\text{OS}^+$	298.1018	298.1008	3.35	
P-9	Precursor ion	$\text{C}_{42}\text{H}_{44}\text{N}_8\text{O}_{12}\text{S}_2^{2+}$	458.1250	458.1255	-1.09	0.843
	MS^2 (458 →)	$\text{C}_{32}\text{H}_{35}\text{N}_6\text{O}_{11}\text{S}_2^+$	743.1833	743.1799	4.57	
	MS^2 (458 →)	$\text{C}_{37}\text{H}_{37}\text{N}_7\text{O}_9\text{S}_2^{2+}$	393.6040	393.6042	-0.41	
	MS^2 (458 →)	$\text{C}_{36}\text{H}_{37}\text{N}_7\text{O}_7\text{S}_2^{2+}$	371.6105	371.6093	3.36	
	MS^3 (458 → 743 →)	$\text{C}_{27}\text{H}_{26}\text{N}_5\text{O}_7\text{S}_2^+$	596.1290	596.1268	3.69	

	$\text{MS}^3 (458 \rightarrow 743 \rightarrow)$	$\text{C}_{22}\text{H}_{19}\text{N}_4\text{O}_4\text{S}_2^+$	467.0838	467.0842	-0.85	
	$\text{MS}^3 (458 \rightarrow 743 \rightarrow)$	$\text{C}_{21}\text{H}_{19}\text{N}_4\text{O}_2\text{S}_2^+$	423.0956	423.0944	2.84	
	$\text{MS}^3 (458 \rightarrow 743 \rightarrow)$	$\text{C}_{16}\text{H}_{12}\text{N}_3\text{O}_2\text{S}^+$	310.0660	310.0645	4.93	
	$\text{MS}^3 (458 \rightarrow 371 \rightarrow)$	$\text{C}_{36}\text{H}_{35}\text{N}_7\text{O}_6\text{S}_2^{2+}$	362.6044	362.6040	1.21	
	$\text{MS}^3 (458 \rightarrow 371 \rightarrow)$	$\text{C}_{31}\text{H}_{28}\text{N}_6\text{O}_3\text{S}_2^{2+}$	298.0837	298.0827	3.46	
	$\text{MS}^3 (458 \rightarrow 371 \rightarrow)$	$\text{C}_{15}\text{H}_{15}\text{N}_3\text{OS}^{++}$	285.0944	285.0930	4.81	
	$\text{MS}^3 (458 \rightarrow 371 \rightarrow)$	$\text{C}_{10}\text{H}_9\text{N}_2\text{O}^+$	173.0713	173.0709	2.08	
P-10	Precursor ion	$\text{C}_{20}\text{H}_{23}\text{O}_5\text{N}_4\text{S}^+$	431.1380	431.1384	-0.93	0.848
	$\text{MS}^2 (431 \rightarrow)$	$\text{C}_{20}\text{H}_{21}\text{N}_4\text{O}_4\text{S}^+$	413.1271	413.1278	-1.69	
	$\text{MS}^2 (431 \rightarrow)$	$\text{C}_{20}\text{H}_{21}\text{N}_4\text{O}_5^+$	397.1518	397.1507	2.77	
	$\text{MS}^2 (431 \rightarrow)$	$\text{C}_{16}\text{H}_{16}\text{O}_3\text{N}_3\text{S}^+$	330.0914	330.0906	2.42	
	$\text{MS}^2 (431 \rightarrow)$	$\text{C}_{15}\text{H}_{16}\text{O}_2\text{N}_3\text{S}^+$	302.0969	302.0958	3.64	
	$\text{MS}^3 (431 \rightarrow 330 \rightarrow)$	$\text{C}_{16}\text{H}_{14}\text{N}_3\text{O}_2\text{S}^+$	312.0809	312.0801	2.56	
	$\text{MS}^3 (431 \rightarrow 330 \rightarrow)$	$\text{C}_{15}\text{H}_{16}\text{O}_2\text{N}_3\text{S}^+$	302.0966	302.0958	2.65	
	$\text{MS}^3 (431 \rightarrow 330 \rightarrow)$	$\text{C}_{16}\text{H}_{14}\text{N}_3\text{O}_3^+$	296.1035	296.1030	1.68	
	$\text{MS}^3 (431 \rightarrow 302 \rightarrow)$	$\text{C}_{15}\text{H}_{14}\text{N}_3\text{OS}^+$	284.0857	284.0852	1.76	
	$\text{MS}^3 (431 \rightarrow 302 \rightarrow)$	$\text{C}_{14}\text{H}_{11}\text{O}_2\text{N}_2\text{S}^+$	271.0536	271.0536	0.00	
	$\text{MS}^3 (431 \rightarrow 302 \rightarrow)$	$\text{C}_{15}\text{H}_{14}\text{N}_3\text{O}_2^+$	268.1079	268.1081	-0.75	
	$\text{MS}^3 (431 \rightarrow 302 \rightarrow)$	$\text{C}_{13}\text{H}_{11}\text{N}_2\text{OS}^+$	243.0587	243.0586	0.41	
	$\text{MS}^3 (431 \rightarrow 302 \rightarrow)$	$\text{C}_{13}\text{H}_{11}\text{N}_2\text{O}^+$	211.0866	211.0865	0.47	
	$\text{MS}^3 (431 \rightarrow 302 \rightarrow)$	$\text{C}_{11}\text{H}_{12}\text{ON}_3^+$	202.0982	202.0975	3.46	
	$\text{MS}^3 (431 \rightarrow 302 \rightarrow)$	$\text{C}_9\text{H}_{10}\text{O}_2\text{N}_2^+$	189.0665	189.0659	3.17	
	$\text{MS}^3 (431 \rightarrow 302 \rightarrow)$	$\text{C}_{10}\text{H}_9\text{N}_2\text{O}^+$	173.0710	173.0709	0.58	
P-11	Precursor ion	$\text{C}_{20}\text{H}_{21}\text{O}_6\text{N}_4\text{S}^+$	445.1174	445.1176	-0.45	0.864
	$\text{MS}^2 (445 \rightarrow)$	$\text{C}_{20}\text{H}_{19}\text{N}_4\text{O}_5\text{S}^+$	427.1083	427.1071	2.81	
	$\text{MS}^2 (445 \rightarrow)$	$\text{C}_{16}\text{H}_{14}\text{N}_3\text{O}_4\text{S}^+$	344.0709	344.0699	2.91	
	$\text{MS}^2 (445 \rightarrow)$	$\text{C}_{15}\text{H}_{14}\text{N}_3\text{O}_3\text{S}^+$	316.0761	316.0750	3.48	
	$\text{MS}^2 (445 \rightarrow)$	$\text{C}_{11}\text{H}_{12}\text{N}_3\text{O}^+$	202.0984	202.0975	4.45	
	$\text{MS}^3 (445 \rightarrow 427 \rightarrow)$	$\text{C}_{14}\text{H}_{14}\text{N}_3\text{O}^+$	240.1134	240.1131	1.25	
	$\text{MS}^3 (445 \rightarrow 316 \rightarrow)$	$\text{C}_{14}\text{H}_{14}\text{N}_3\text{O}_2^+$	256.1086	256.1081	1.95	
P-12	Precursor ion	$\text{C}_{21}\text{H}_{23}\text{O}_7\text{N}_4\text{S}^+$	475.1275	475.1282	-1.47	0.895
	$\text{MS}^2 (475 \rightarrow)$	$\text{C}_{19}\text{H}_{20}\text{N}_3\text{O}_7^+$	402.1306	402.1296	2.49	
	$\text{MS}^2 (475 \rightarrow)$	$\text{C}_{16}\text{H}_{14}\text{N}_3\text{O}_3\text{S}^+$	328.0760	328.0750	3.05	
	$\text{MS}^2 (475 \rightarrow)$	$\text{C}_{16}\text{H}_{12}\text{N}_3\text{O}_2\text{S}^+$	310.0658	310.0645	4.19	
	$\text{MS}^2 (475 \rightarrow)$	$\text{C}_{11}\text{H}_{15}\text{N}_2\text{O}_5\text{S}^+$	287.0710	287.0696	4.88	
	$\text{MS}^2 (475 \rightarrow)$	$\text{C}_{11}\text{H}_{12}\text{N}_3\text{O}_2^+$	218.0919	218.0924	-2.29	
	$\text{MS}^2 (475 \rightarrow)$	$\text{C}_{10}\text{H}_9\text{N}_2\text{O}_2^+$	189.0667	189.0658	4.76	
	$\text{MS}^2 (475 \rightarrow)$	$\text{C}_6\text{H}_6\text{NOS}^+$	140.0171	140.0165	4.29	
P-13	Precursor ion	$\text{C}_{21}\text{H}_{23}\text{O}_7\text{N}_4\text{S}^+$	475.1278	475.1282	-0.84	0.958

	MS^2 (475 →)	$\text{C}_{16}\text{H}_{14}\text{N}_3\text{O}_3\text{S}^+$	328.0758	328.0750	2.44	
	MS^2 (475 →)	$\text{C}_{16}\text{H}_{12}\text{N}_3\text{O}_2\text{S}^+$	310.0652	310.0645	2.26	
	MS^2 (475 →)	$\text{C}_{11}\text{H}_{12}\text{N}_3\text{O}_2+$	218.0919	218.0924	-2.29	
	MS^2 (475 →)	$\text{C}_{10}\text{H}_9\text{N}_2\text{O}^+$	173.0703	173.0709	-3.47	
P-14	Precursor ion	$\text{C}_{20}\text{H}_{21}\text{N}_4\text{O}_5\text{S}^+$	429.1222	429.1227	-1.17	1.099
	MS^2 (429 →)	$\text{C}_{16}\text{H}_{16}\text{N}_3\text{O}_3\text{S}^+$	330.0914	330.0906	2.42	
	MS^2 (429 →)	$\text{C}_{16}\text{H}_{14}\text{N}_3\text{O}_2\text{S}^+$	312.0803	312.0801	0.64	
	MS^2 (429 →)	$\text{C}_{15}\text{H}_{16}\text{N}_3\text{OS}^+$	286.1003	286.1008	-1.75	
	MS^2 (429 →)	$\text{C}_{10}\text{H}_9\text{N}_2\text{O}^+$	173.0704	173.0709	-2.88	
P-15	Precursor ion	$\text{C}_{43}\text{H}_{46}\text{N}_8\text{O}_{12}\text{S}_2^{2+}$	465.1329	465.1333	-0.82	1.542
	MS^2 (465 →)	$\text{C}_{38}\text{H}_{36}\text{N}_7\text{O}_8\text{S}_2^+$	782.2074	782.2061	1.62	
	MS^2 (465 →)	$\text{C}_{33}\text{H}_{37}\text{N}_6\text{O}_{11}\text{S}_2^+$	757.1971	757.1956	1.98	
	MS^2 (465 →)	$\text{C}_{22}\text{H}_{23}\text{N}_4\text{O}_6\text{S}^+$	471.1348	471.1333	3.23	
	MS^2 (465 →)	$\text{C}_{10}\text{H}_9\text{N}_2\text{O}^+$	173.0713	173.0709	2.08	
	MS^2 (465 →)	$\text{C}_5\text{H}_{10}\text{NO}_4^+$	148.0610	148.0604	3.85	
	MS^3 (465 →757→)	$\text{C}_{22}\text{H}_{23}\text{N}_4\text{O}_6\text{S}^+$	471.1354	471.1333	4.50	
	MS^3 (465 →757→)	$\text{C}_{21}\text{H}_{23}\text{N}_4\text{O}_6\text{S}^+$	459.1348	459.1333	3.31	
	MS^3 (465 →757→)	$\text{C}_{16}\text{H}_{14}\text{N}_3\text{O}_2\text{S}^+$	312.0801	312.0801	-0.06	