

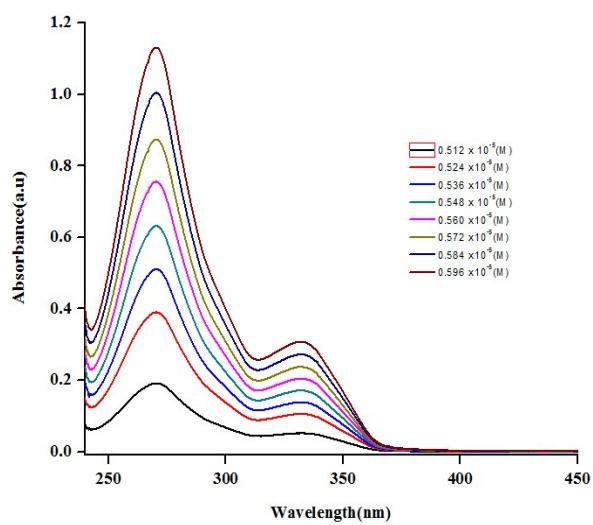
## Packing-induced solid-state fluorescence and thermochromic behavior of peptidic luminophores†

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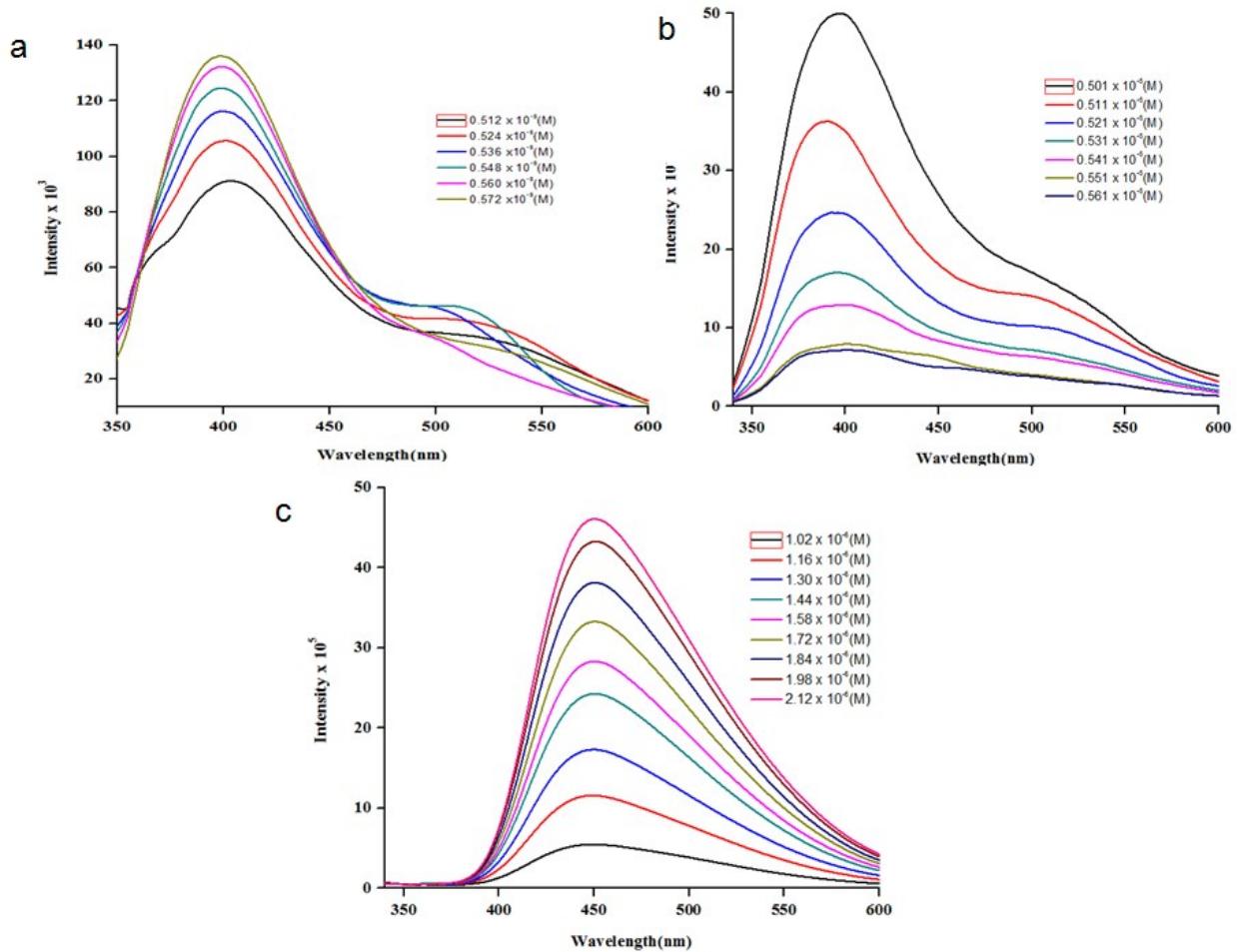
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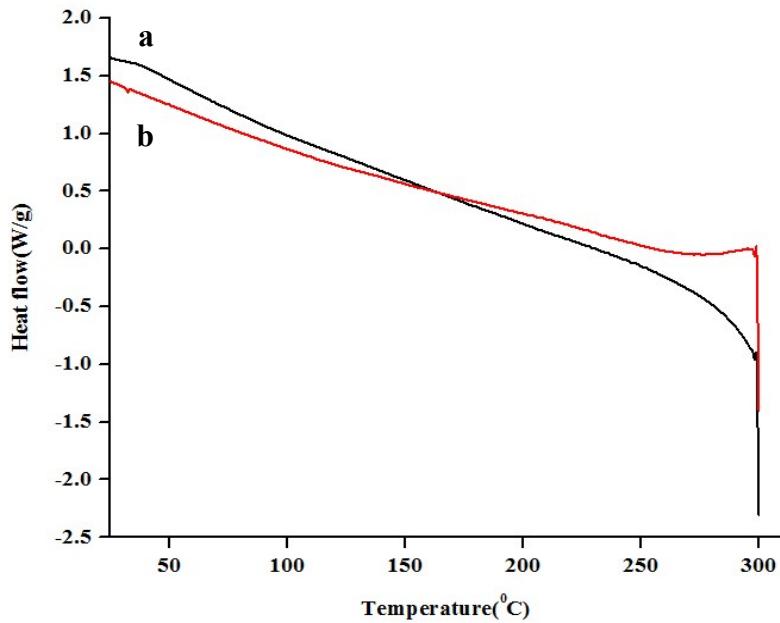
ESI Fig. S1	2	Figure S3	8
ESI Fig. S2	3	Figure S4	8
ESI Fig. S3	4	Figure S5	9
ESI Fig. S4	4	Figure S6	10
ESI Fig. S5	5	Figure S7	10
ESI Fig. S6	5	Figure S8	11
ESI Fig. S7	6	Figure S9	11
ESI Fig. S8	6	Figure S10	12
Figure S1	7	Figure S11	12
Figure S2	7	Figure S12	13



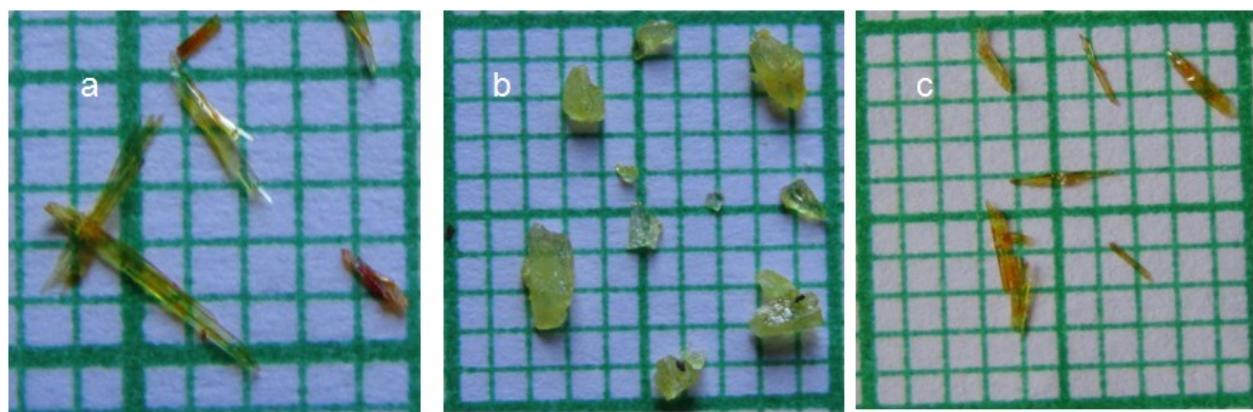
**ESI Figure S1:** UV/Vis absorption spectra of 6-Nitro-coumarin-3-carboxylic acid methyl ester **1**.



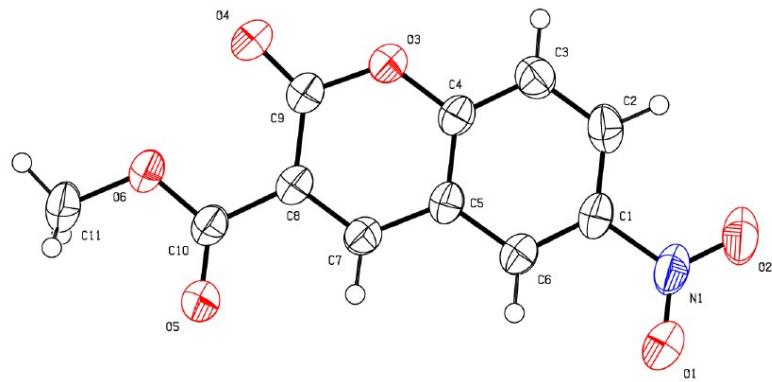
**ESI Figure S2:** Emission spectra of (a) compound 1, (b) nitropeptides 2 and (c) nitropeptide 3.



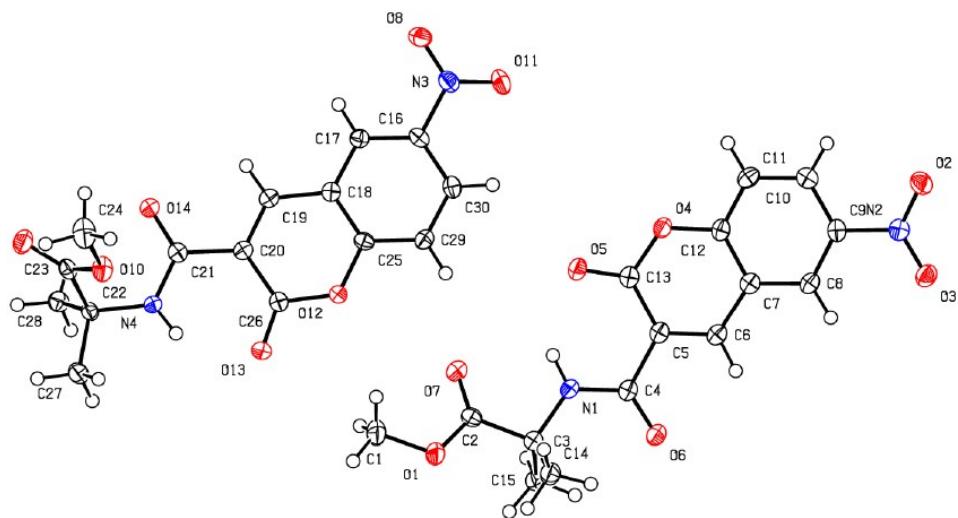
**ESI Figure S3:** DSC cooling scans for (a) nitropeptides **2** and (b) nitropeptide **3**.



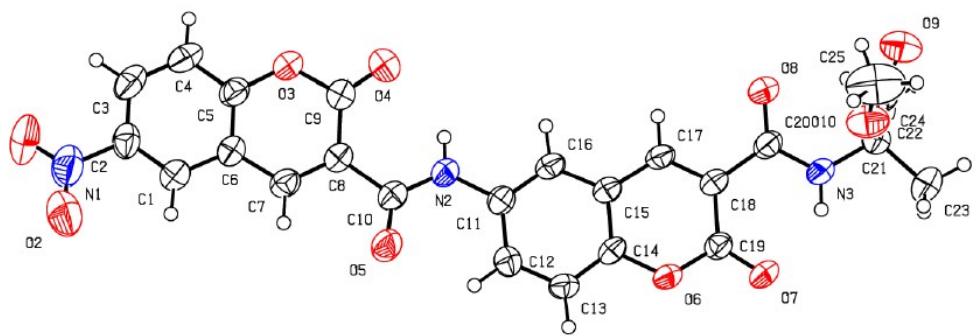
**ESI Figure S4:** Crystals of (a) compound **1**, (b) nitropeptides **2** and (c) nitropeptide **3**.



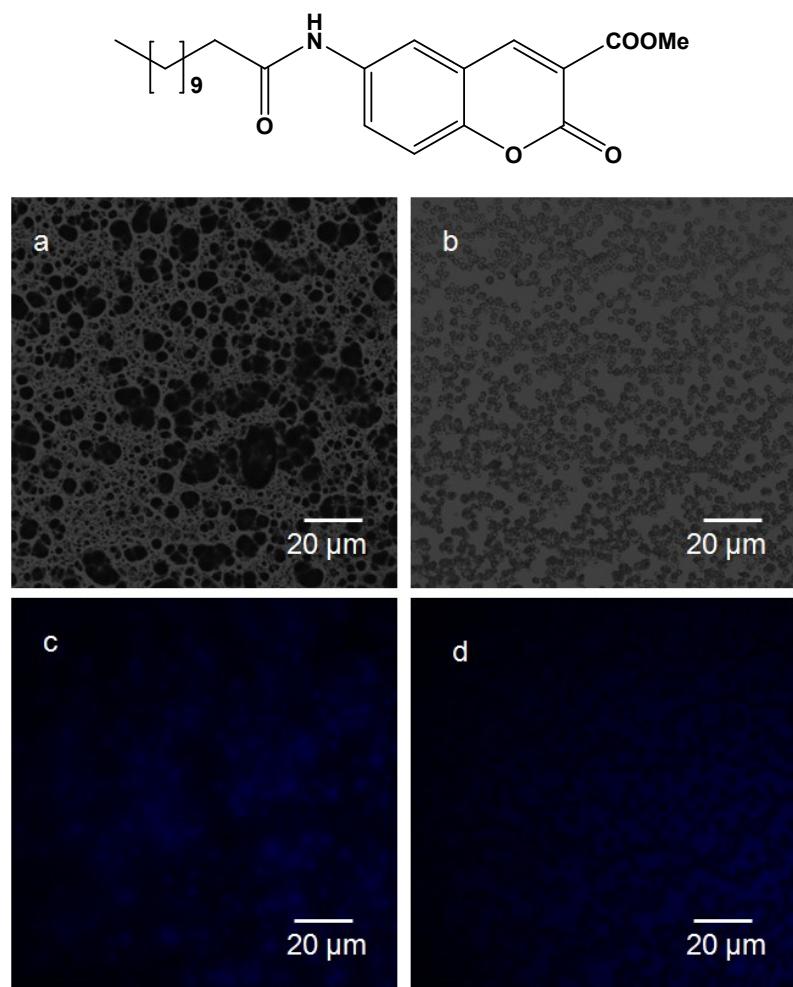
**ESI Figure S5:** The ORTEP diagram of compound **1** with atomic numbering scheme. Thermal ellipsoids are shown at 50% probability level.



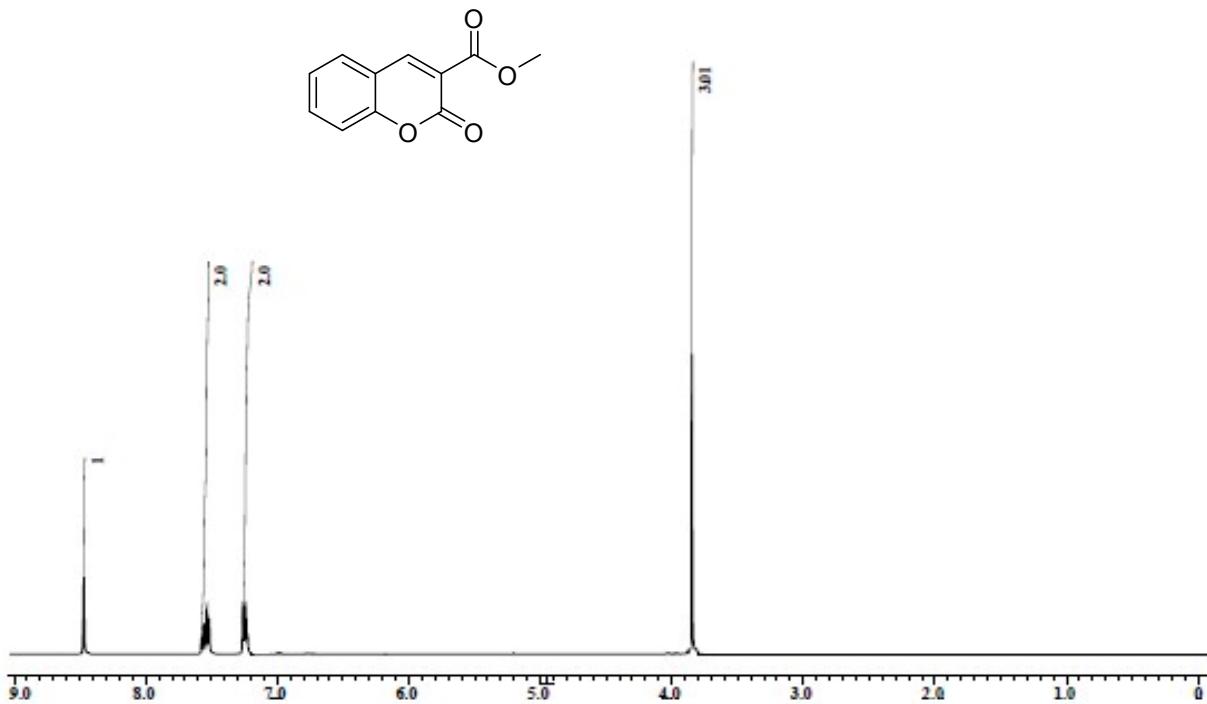
**ESI Figure S6:** The ORTEP diagram of nitropeptide **2** with atomic numbering scheme. Thermal ellipsoids are shown at 50% probability level.



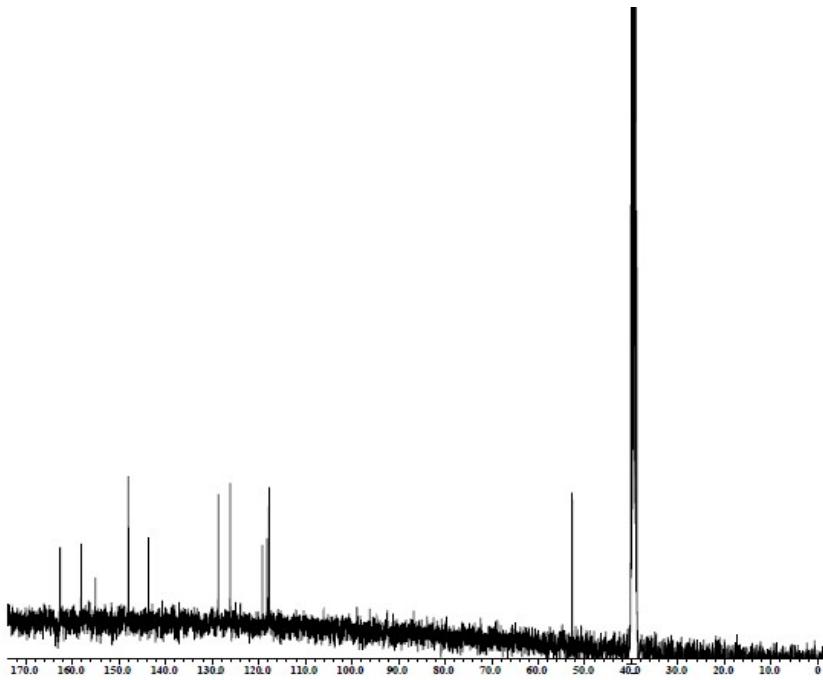
**ESI Figure S7:** The ORTEP diagram of nitropeptide **2** with atomic numbering scheme. Thermal ellipsoids are shown at 50% probability level.



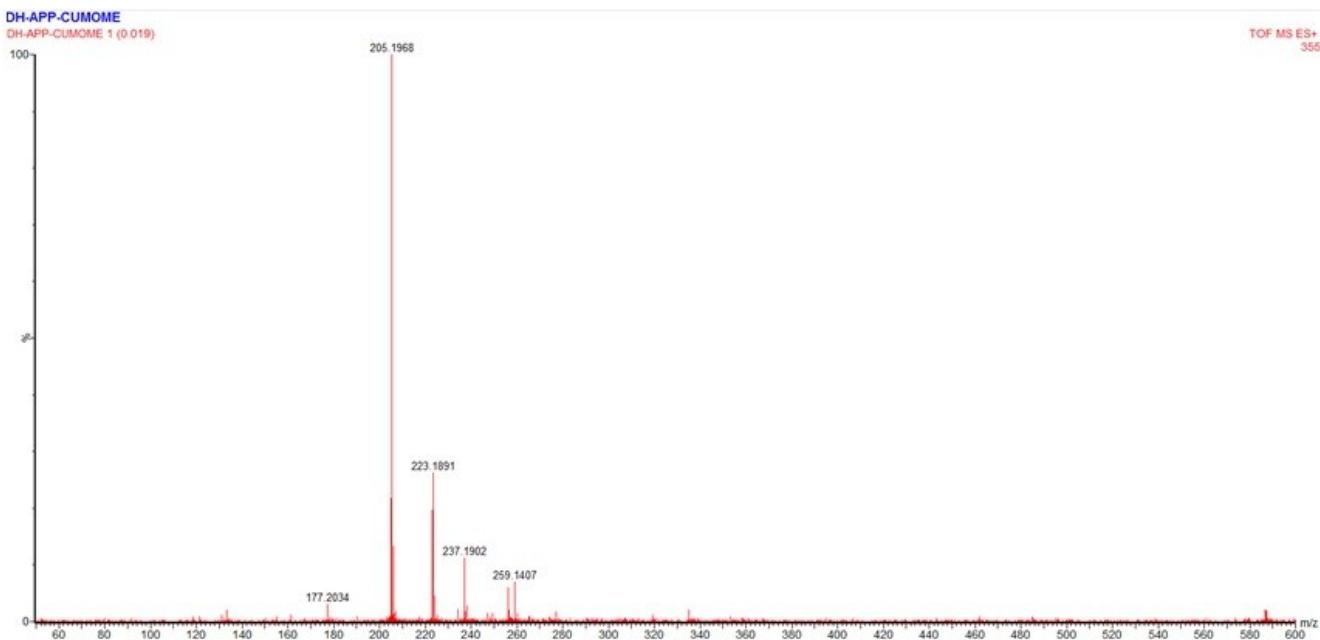
**ESI Figure S8:** The fluorescence microscopic images of (a) lauric acid appended 6-amino-coumarin-3-carboxylic acid methyl ester, (b) solid obtained by cooling of melt. (c) lauric acid appended 6-amino-coumarin-3-carboxylic acid methyl ester and (d) solid obtained by cooling of melt on excitation at 330 nm.



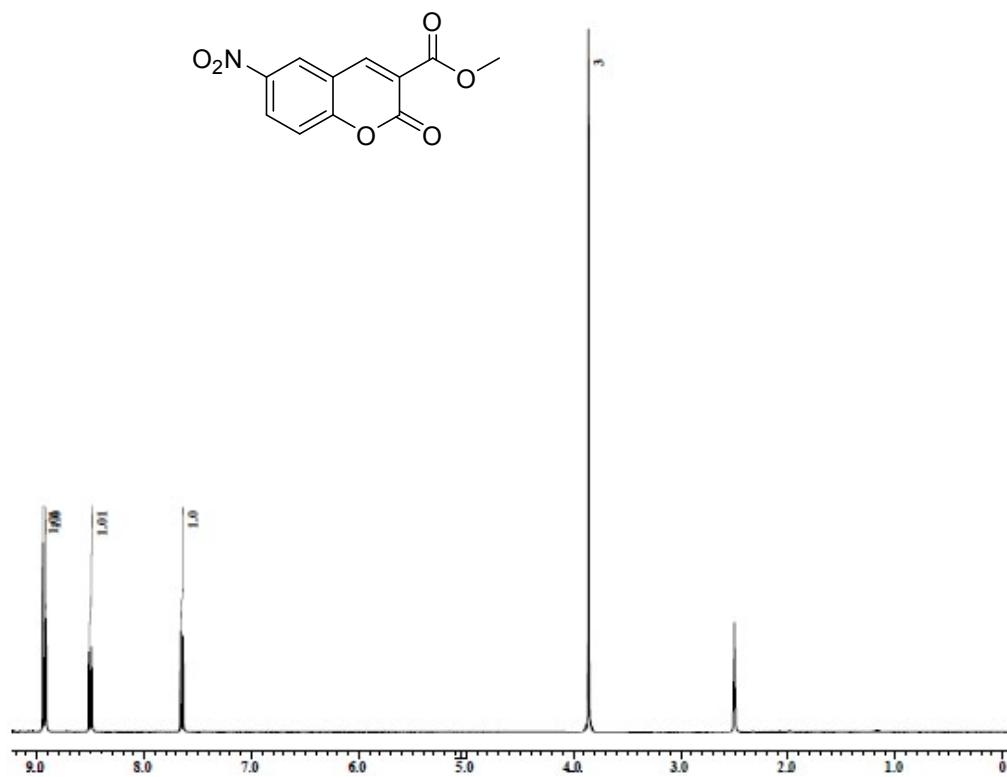
**Fig S1 :** <sup>1</sup>H NMR ( $\text{CDCl}_3$ , 400 MHz,  $\delta$ ppm) Spectra of compound 4



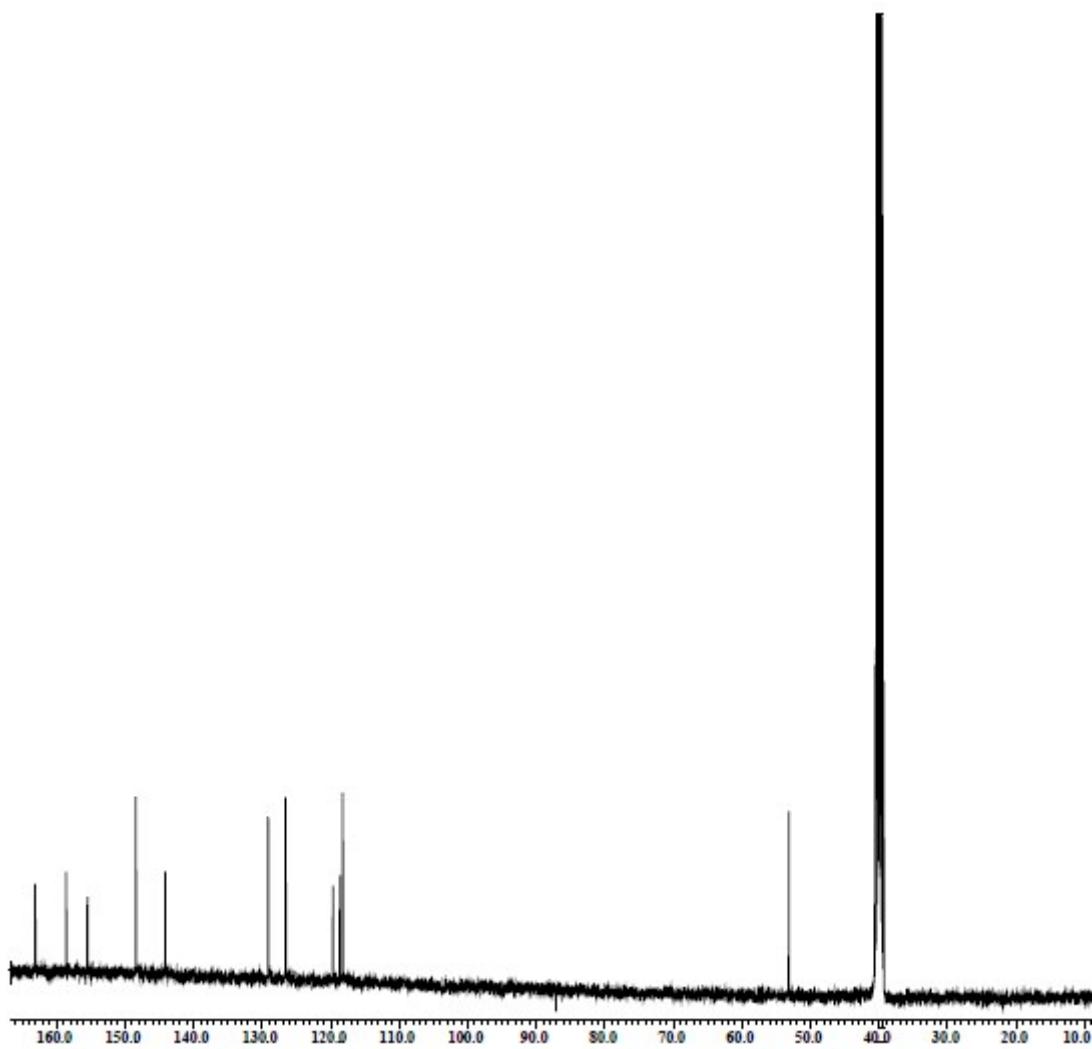
**Fig S2 :** <sup>13</sup>C NMR ( $\text{DMSO}-d_6$ , 100 MHz,  $\delta$ ppm) Spectra of compound 4



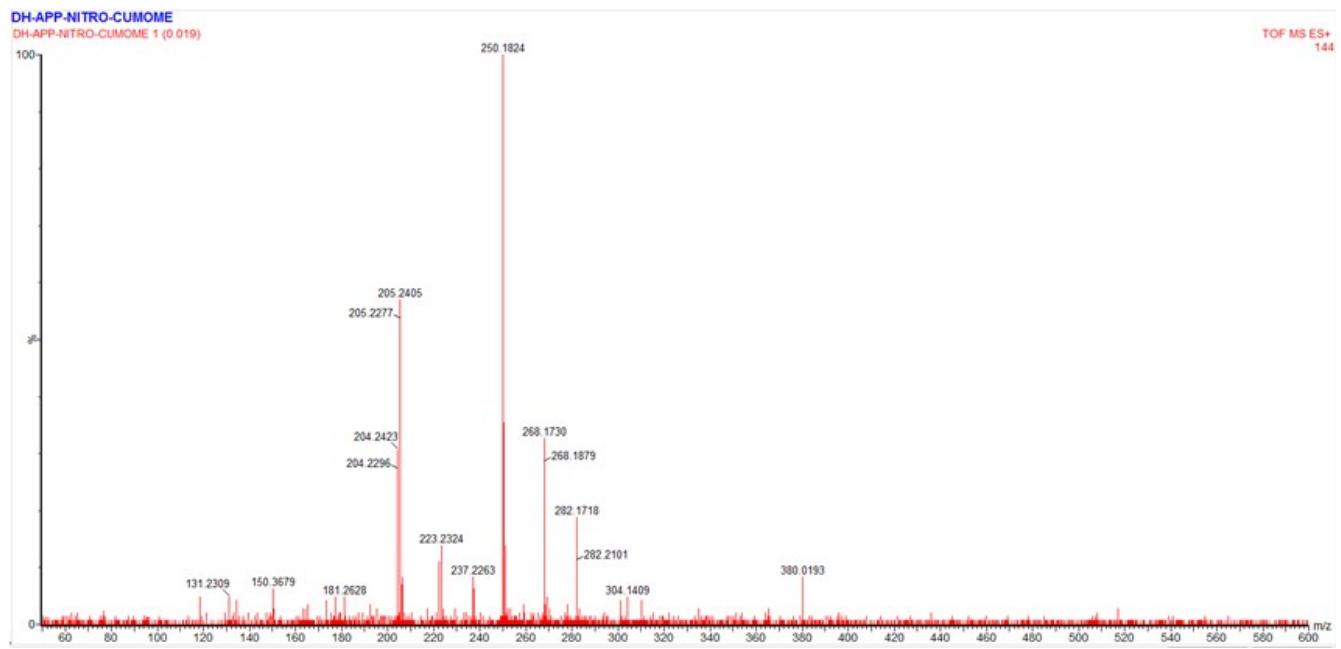
**Fig S3 :** Mass spectra of compounds 4



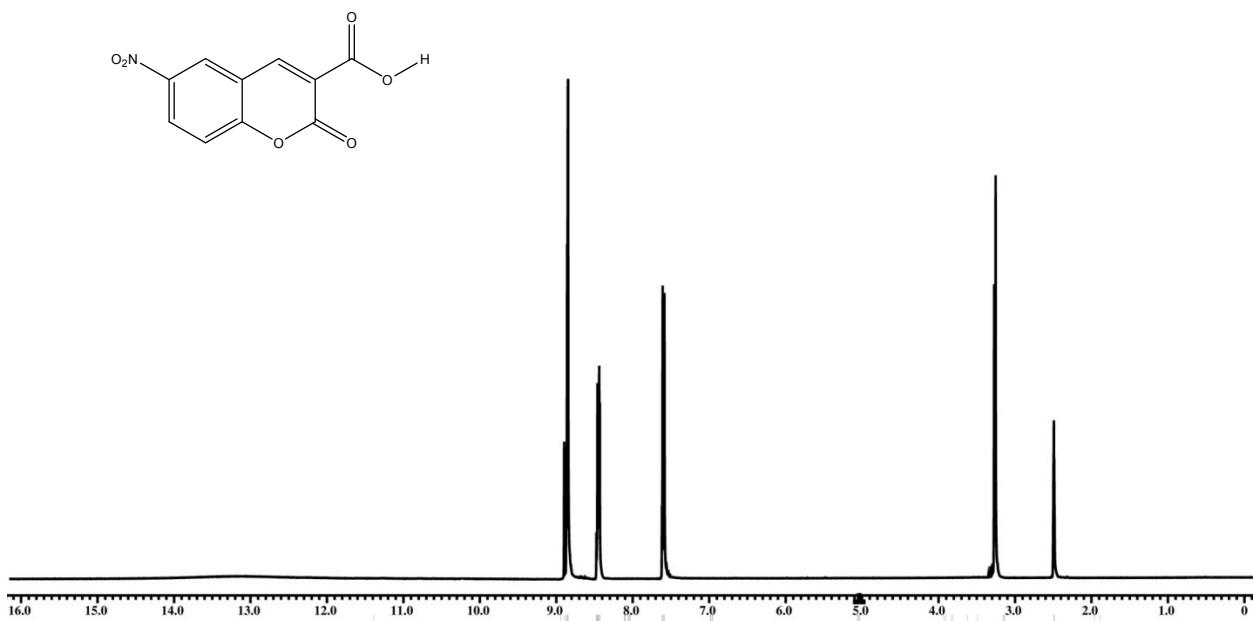
**Fig S4 :**  $^1\text{H}$  NMR ( $\text{DMSO}-d_6$ , 400 MHz,  $\delta$ ppm) Spectra of compound 1

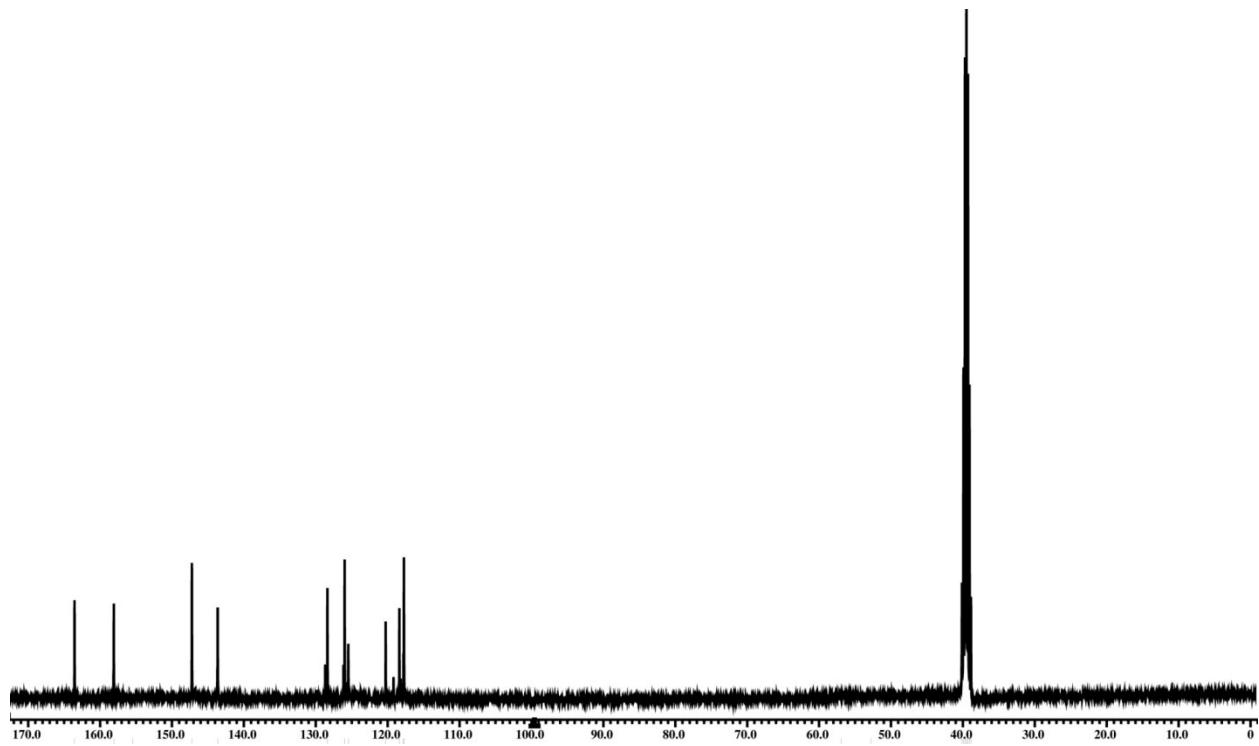


**Fig S5 :**  $^{13}\text{C}$  NMR (DMSO- $d_6$ , 100 MHz,  $\delta$ ppm) Spectra of compound **1**

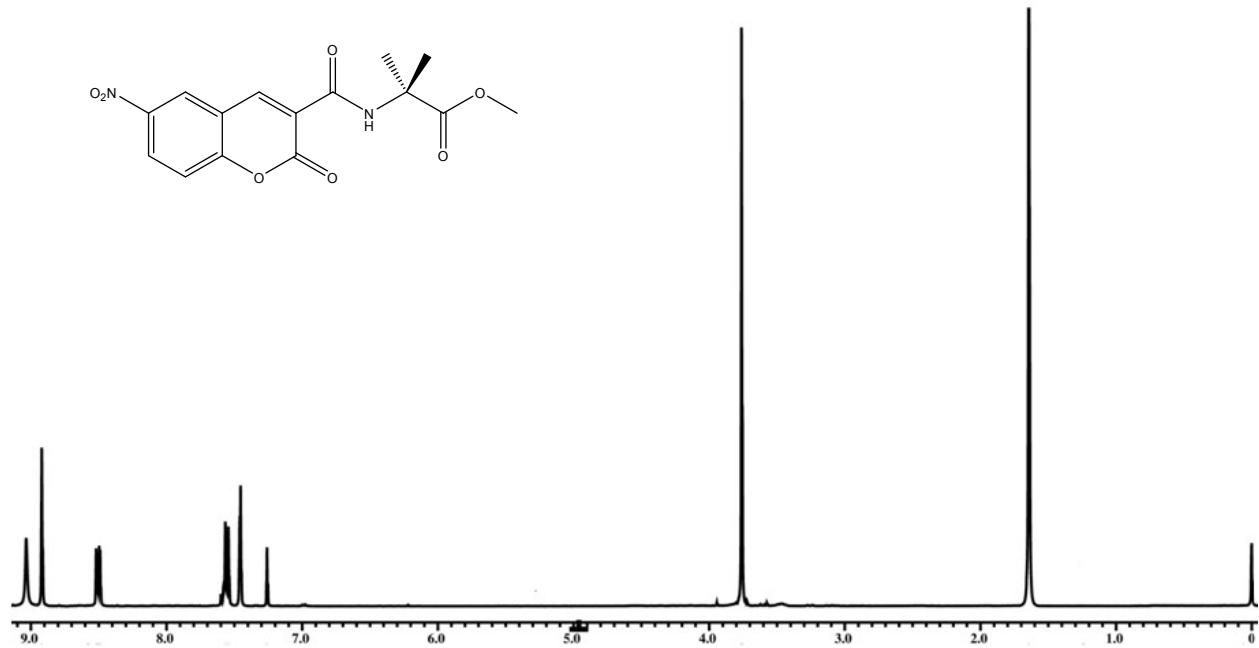


**Fig S6 :** Mass spectra of compounds 1

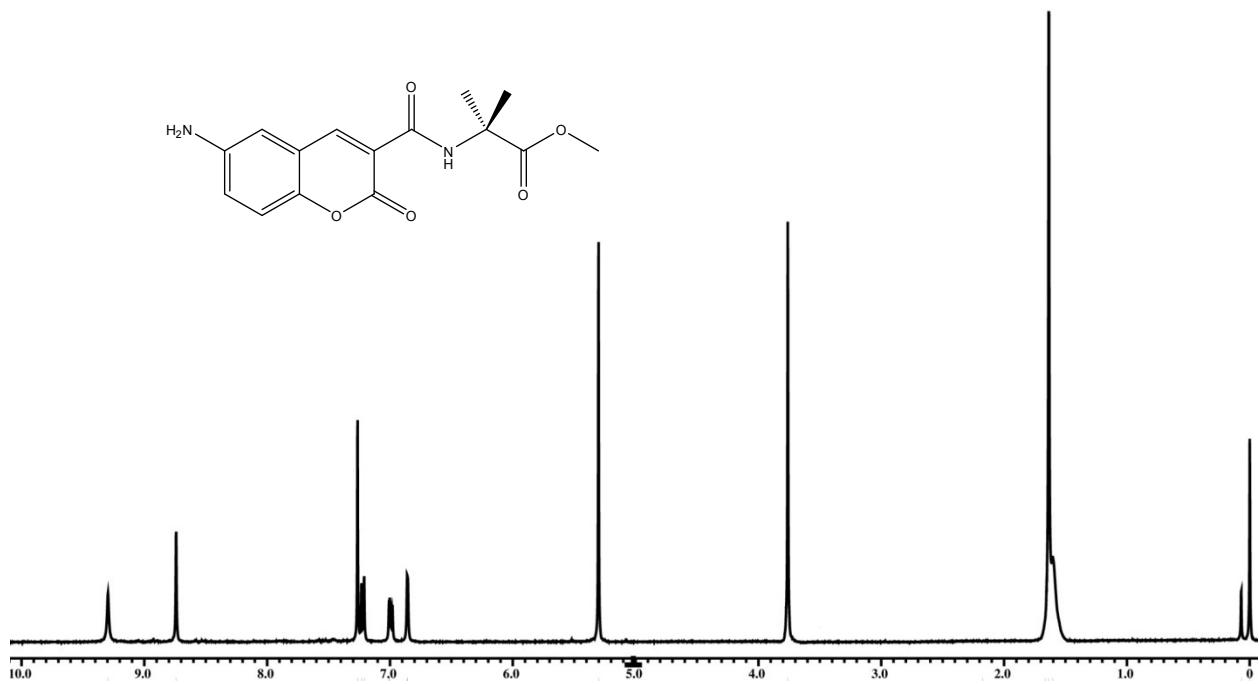




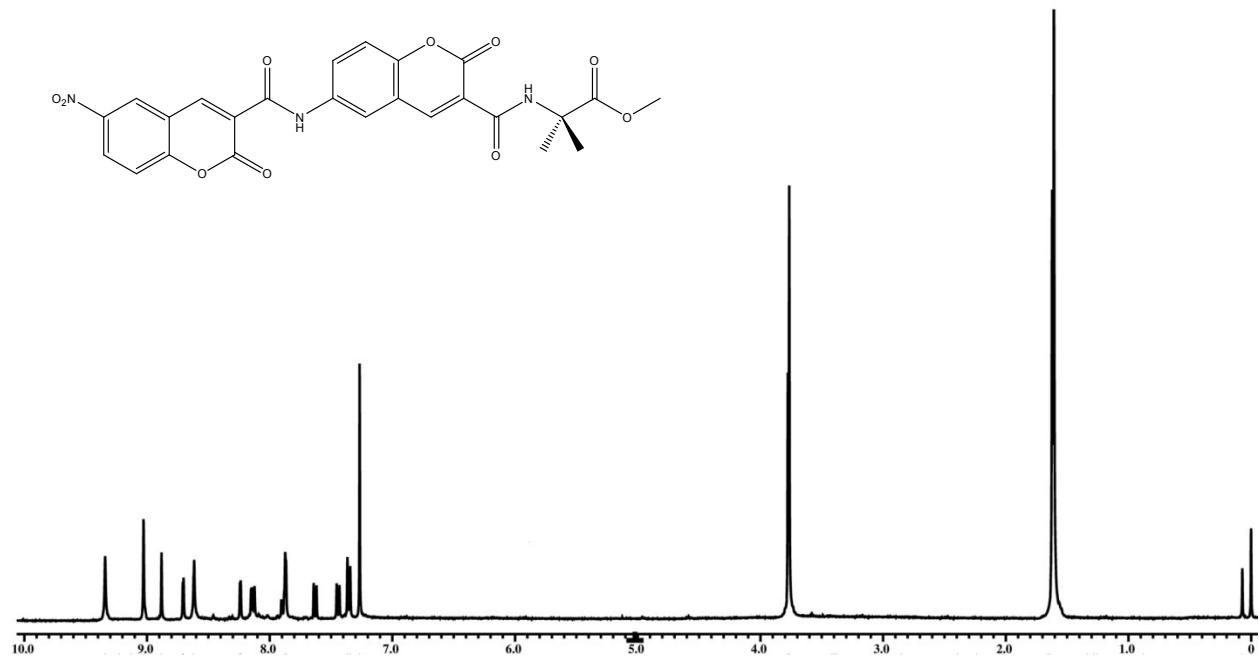
**Fig. S8:** <sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 125 MHz,  $\delta$  ppm) spectra of O<sub>2</sub>N-Cum-OH.



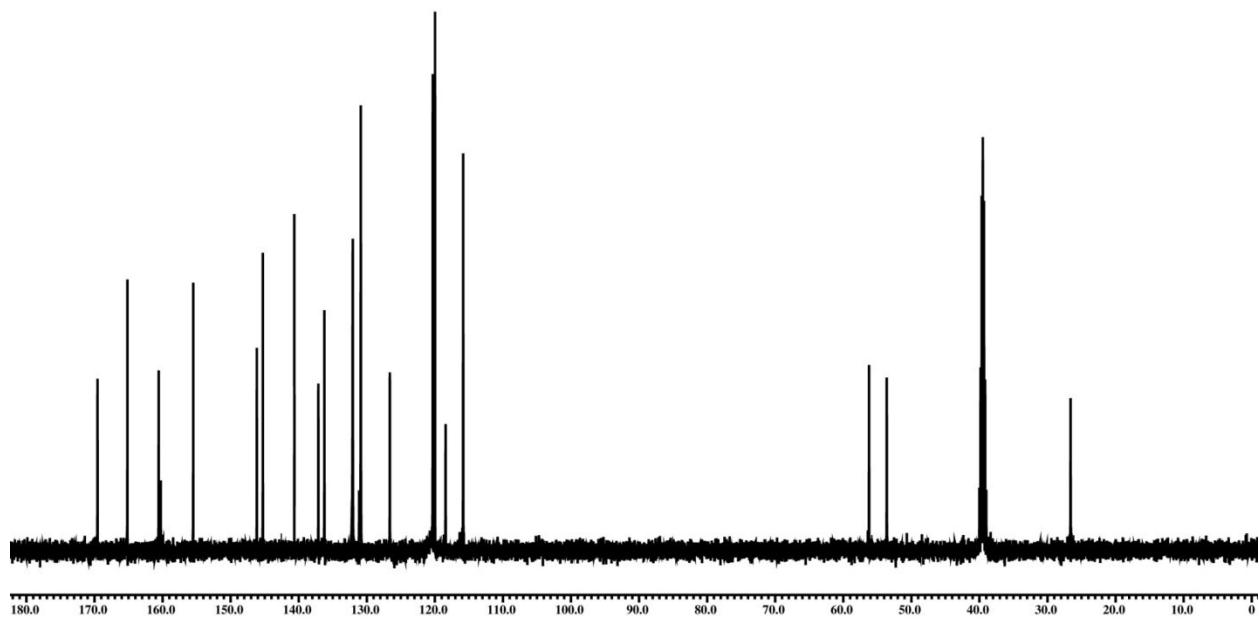
**Fig. S9:** <sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz,  $\delta$  ppm) spectra of O<sub>2</sub>N-Cum-Aib-OMe.



**Fig. S10:**  $^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz,  $\delta$  ppm) spectra of  $\text{H}_2\text{N-Cum-Aib-OMe}$ .



**Fig. S11:**  $^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz,  $\delta$  ppm) spectra of  $\text{O}_2\text{N-Cum-Cum-Aib-OMe}$ .



**Fig. S12:**  $^{13}\text{C}$  NMR (DMSO- $d_6$ , 125 MHz,  $\delta$  ppm) spectra of  $\text{O}_2\text{N-Cum-Cum-Aib-OMe}$ .