

Supplementary Information

Sonication-responsive organogelation of a tripodal peptide and optical properties of embedded Tm^{3+} nanoclusters †

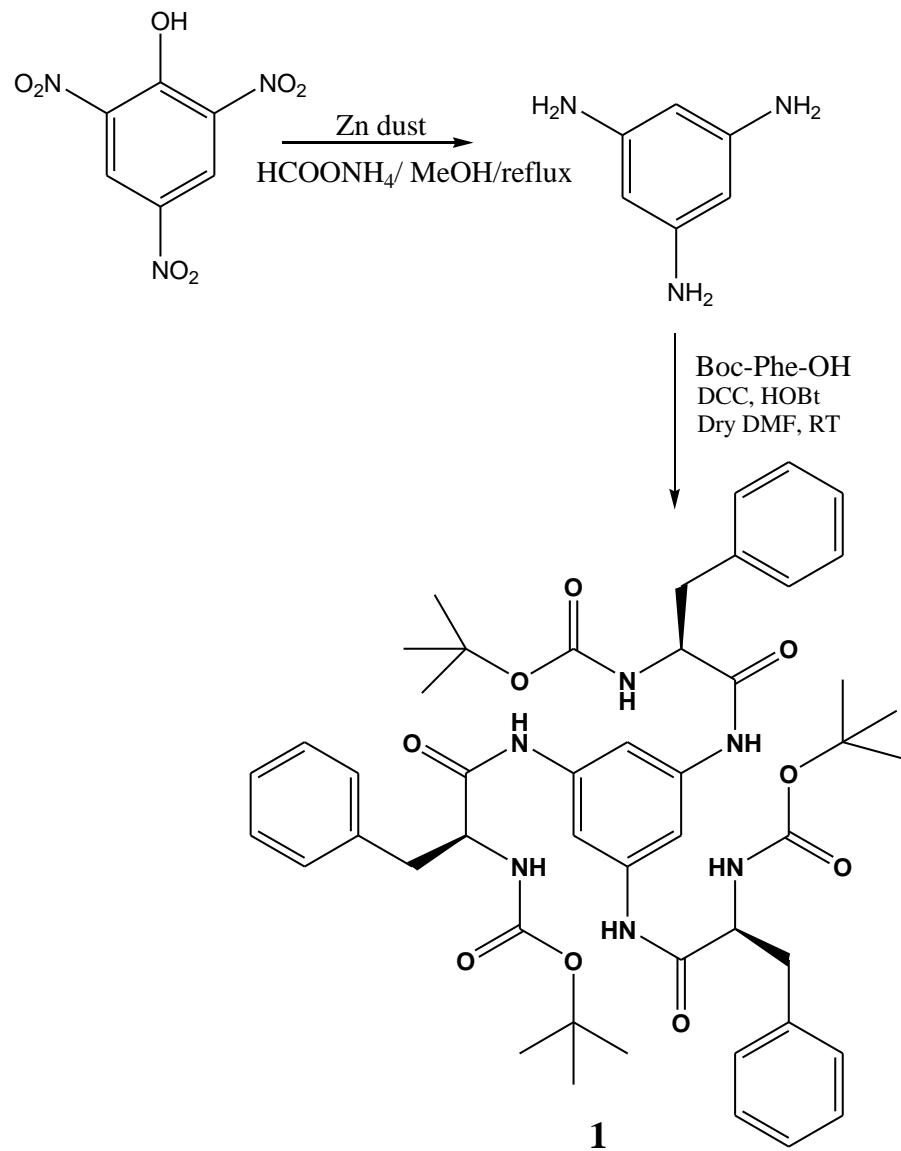
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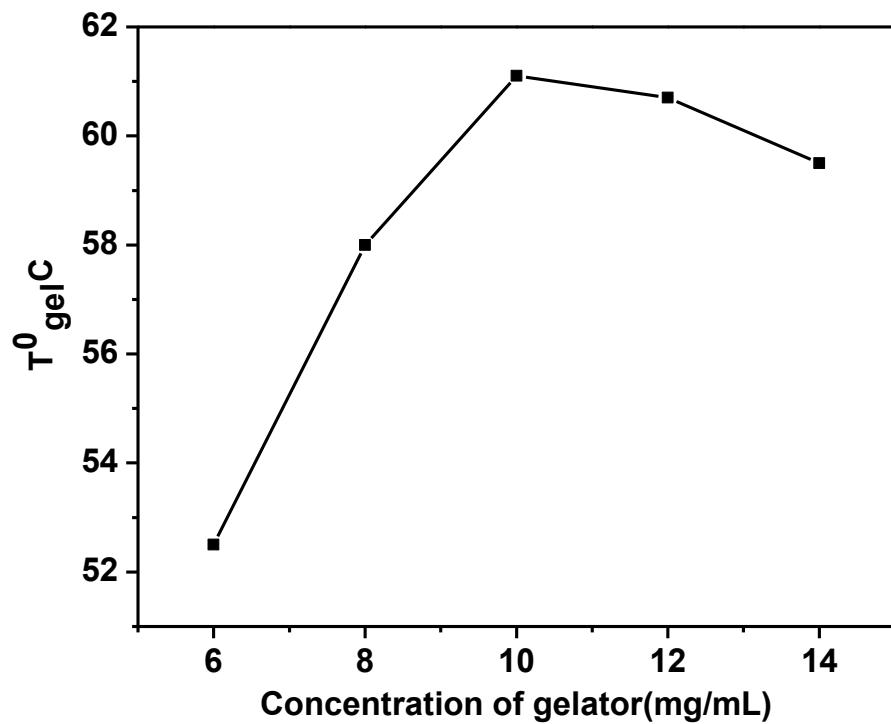
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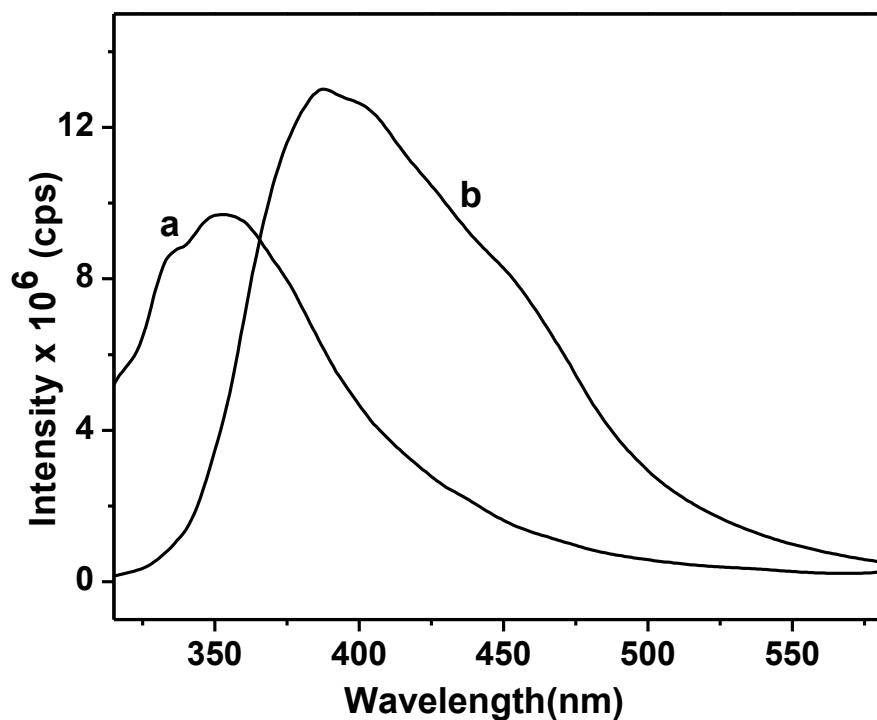
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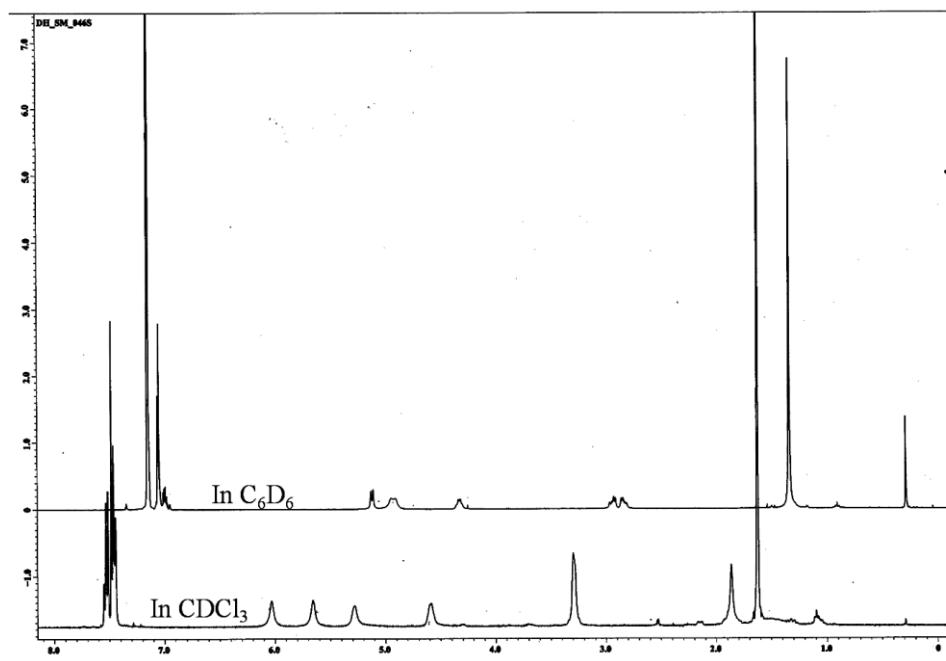
ESI Fig. S1 Schematic representation of synthesis of peptide **1**



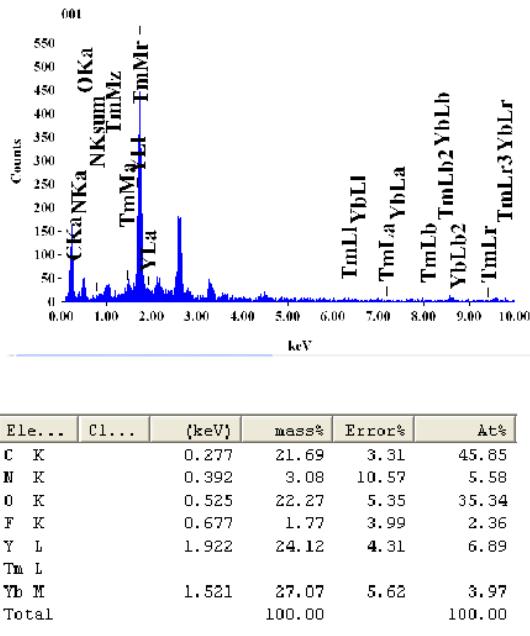
ESI Fig. S2 T_{gel} curve of peptide **1** gelator in toluene.



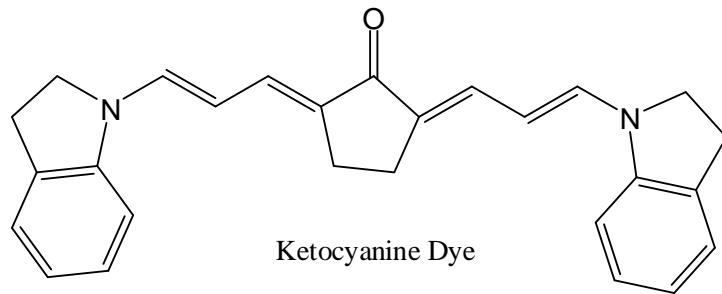
ESI Fig. S3 The emission spectra of peptide **1** in solution state (a) and in gel state (b) obtained by sonication at concentration 10 mg/mL.



ESI Fig. S4 ¹H-NMR (400 MHz) spectra of peptide **1** in two different solvents (3mg/mL).



ESI Fig. S5 EDS study of nanocrystal and Ketocyanine in peptide **1** xerogel matrix.



ESI Fig. S6 Chemical structure of ketocyanine dye.

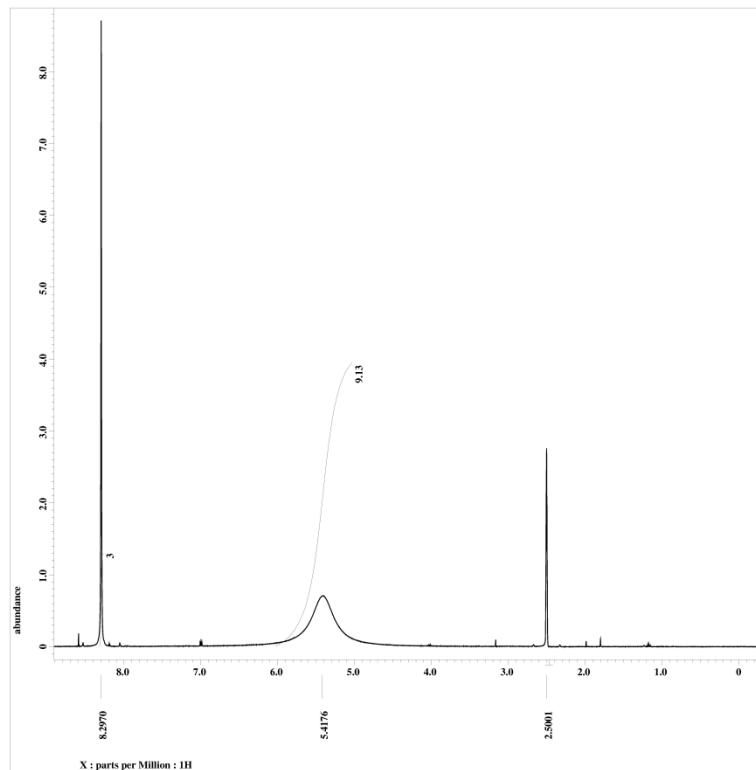
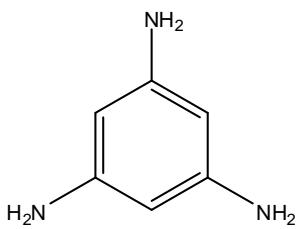


Fig. 1 ^1H NMR (DMSO-d₆, 400MHz, δ_{ppm}) of 1,3,5-triaminobenzene.

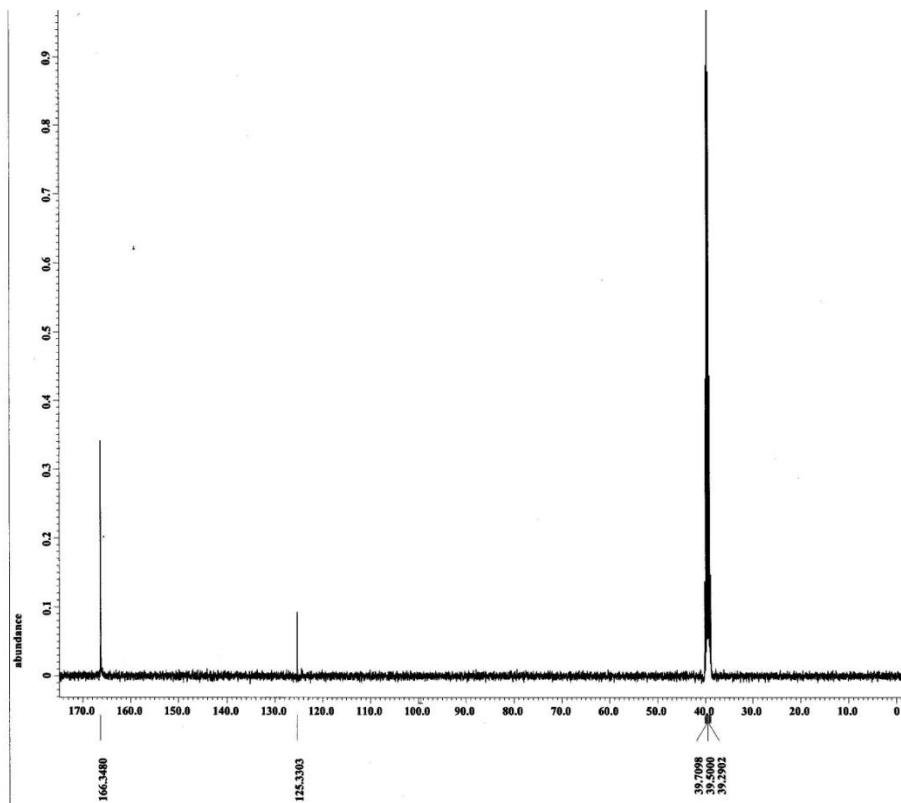


Fig. 2 ^{13}C NMR (DMSO-d₆, 100MHz, δ _{ppm}) of 1,3,5-triaminobenzene.

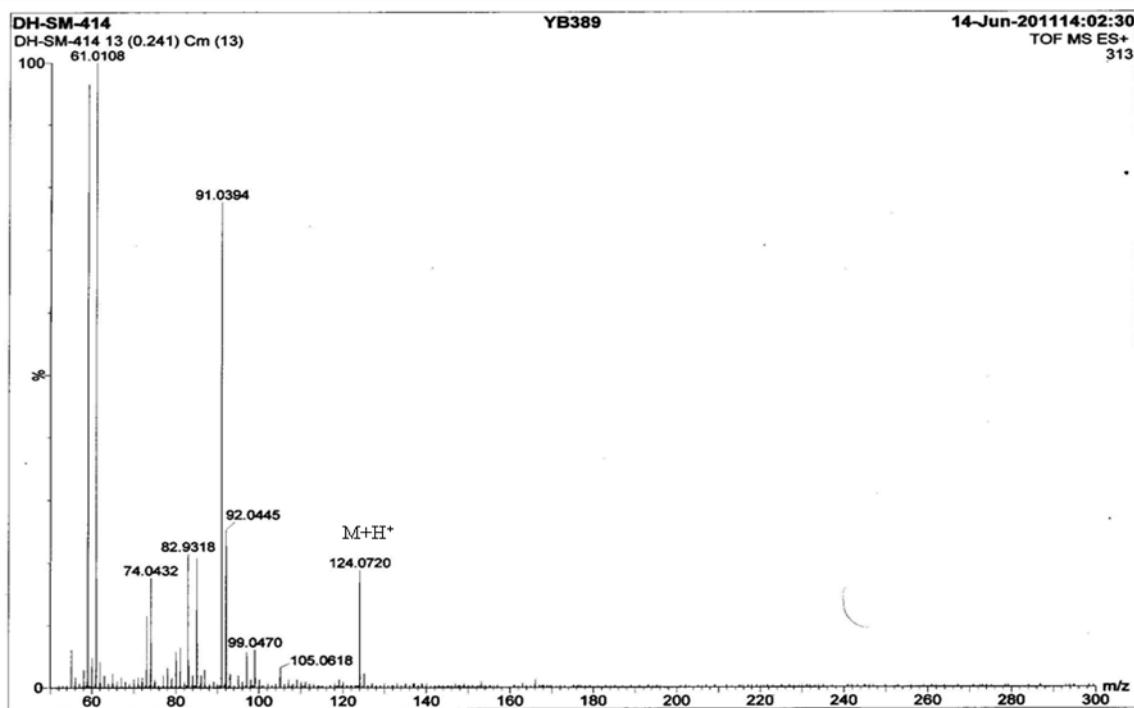


Fig. 3 Mass spectra of 1,3,5-triaminobenzene.

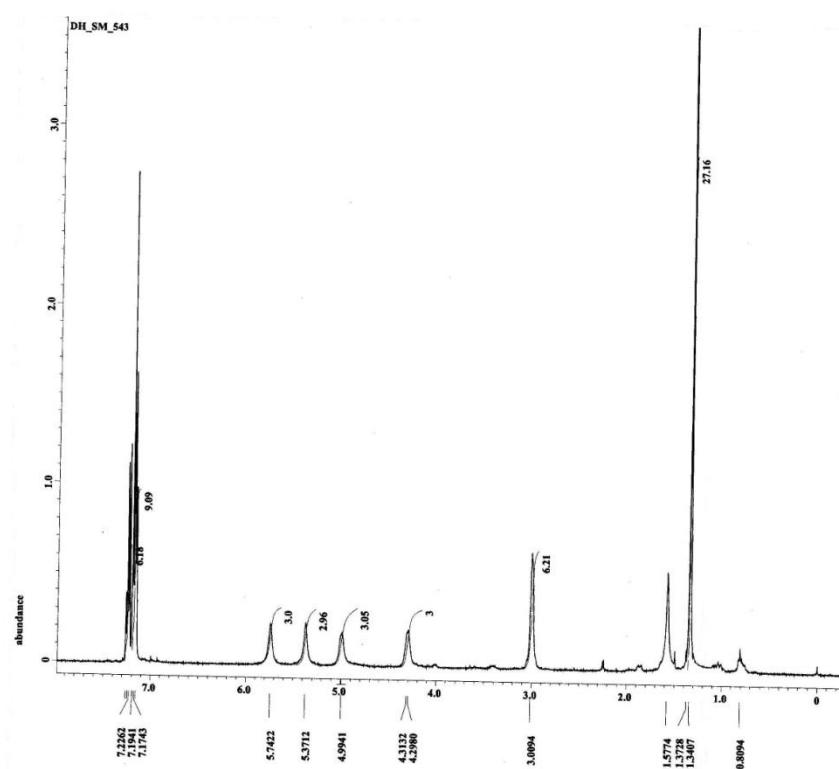
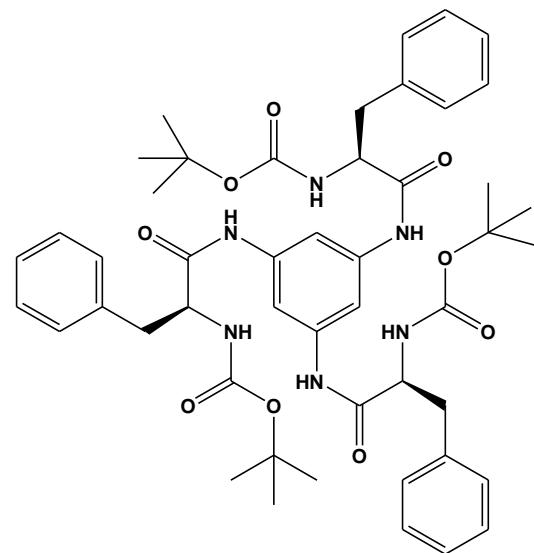


Fig. 4 ¹H NMR (CDCl₃, 400MHz, δ ppm) of peptide 1.

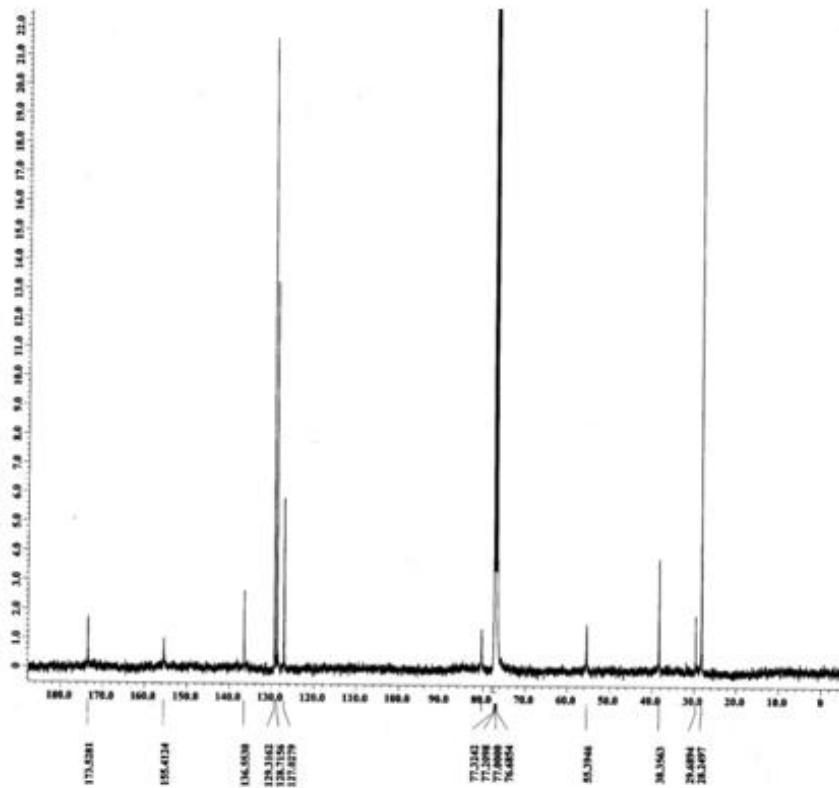


Fig. 5 ^{13}C NMR (CDCl_3 , 100MHz, δ ppm) of peptide 1.

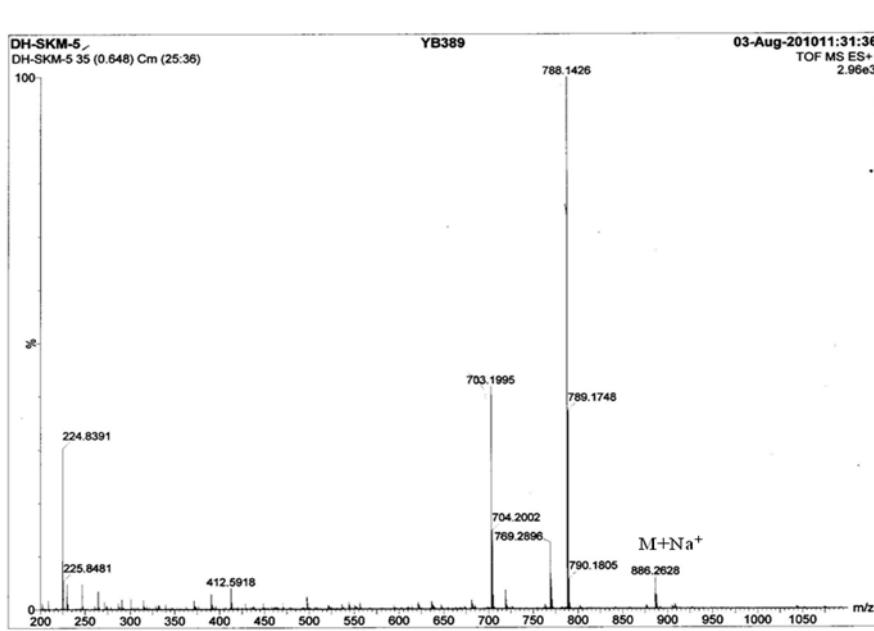


Fig. 6 Mass spectra of Peptide 1.

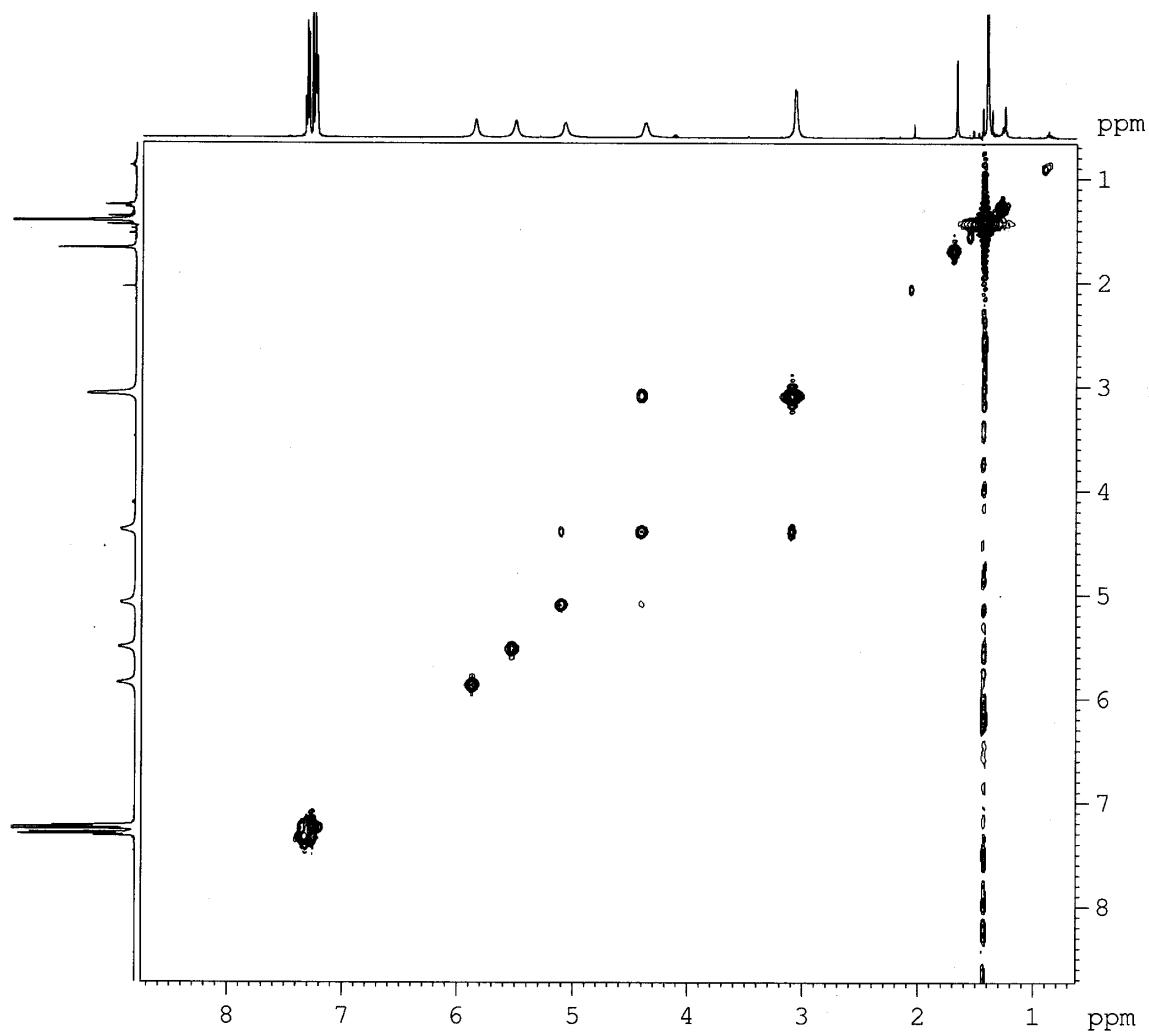


Fig. 7 COSY spectra of peptide **1**.