

Supporting Information

Sonication-induced instant amyloid-like fibril formation and organogelation by a tripeptide

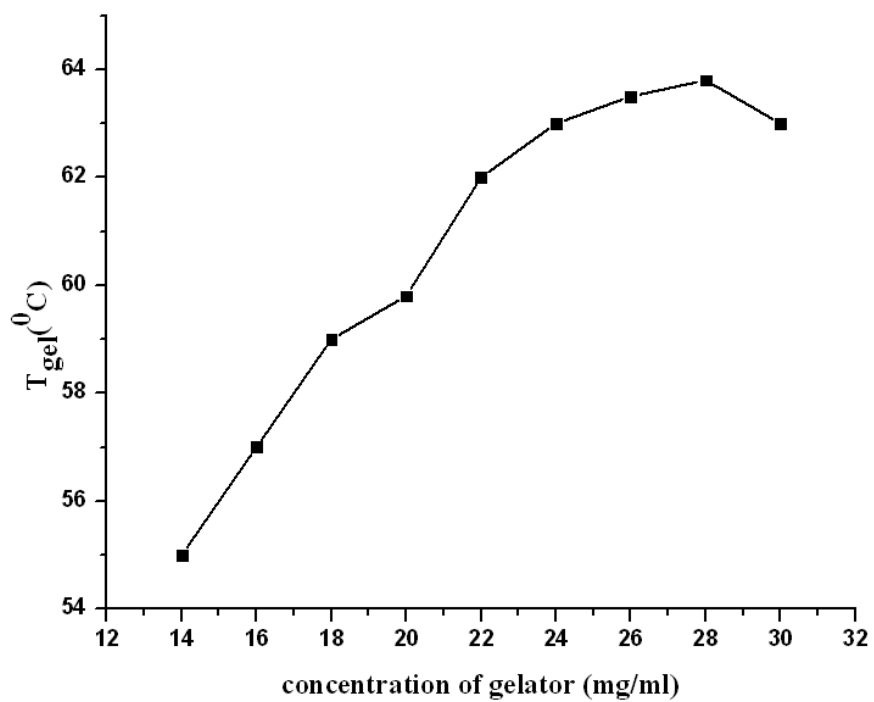
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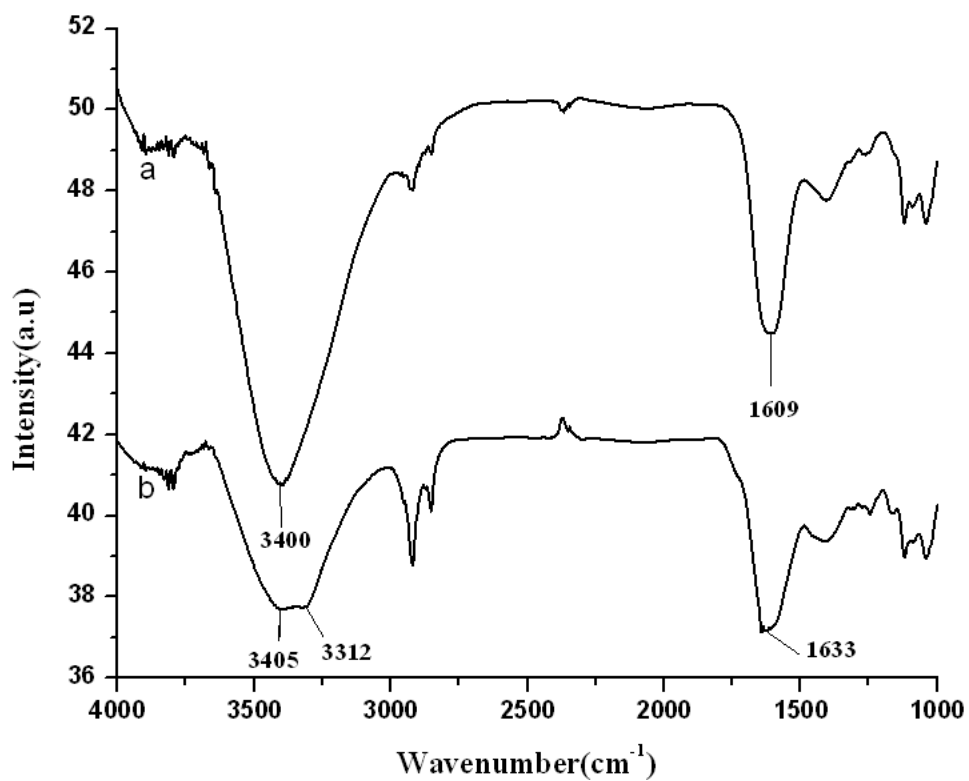
E-mail: deba_h76@yahoo.com ; deba_h76@iiserkol.ac.in

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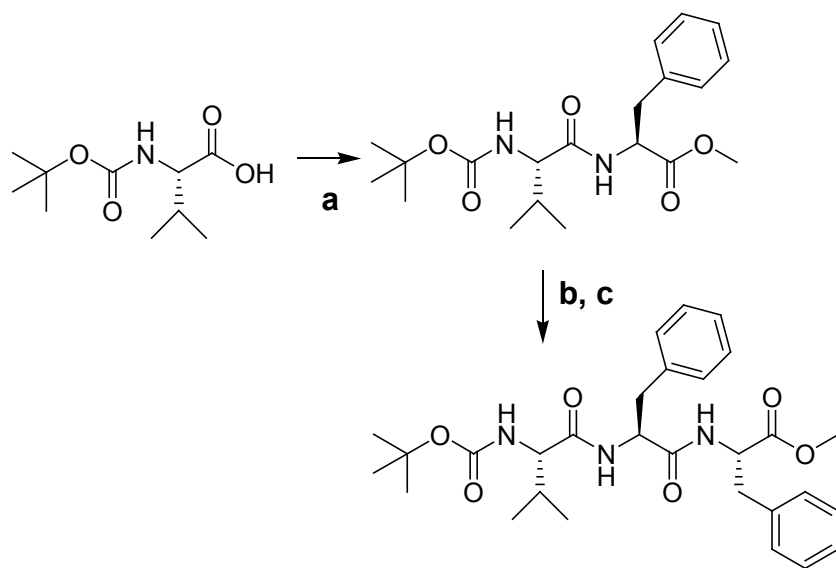
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ESI Figure S1: The change of T_{gel} with respect to concentration of sonication induced gel obtained from peptide **1** in *p*-xylene. Sonication time 40 seconds.



ESI Figure S2: The FTIR spectra (solution state) of peptide 1 in *p*-xylene (a) before sonication and (b) after sonication showing structural transition to intermolecular hydrogen bonded conformation.



Scheme 1: Schematic presentation of synthesis of peptide **1**. Reagents and conditions: a) DCM, H-Phe-OMe, DCC, HOBT, 0°C 74.89%; b) NaOH (2N), MeOH, HCl; c) DCM, H-Phe-OMe, DCC, HOBT, 0°C 75.20% .

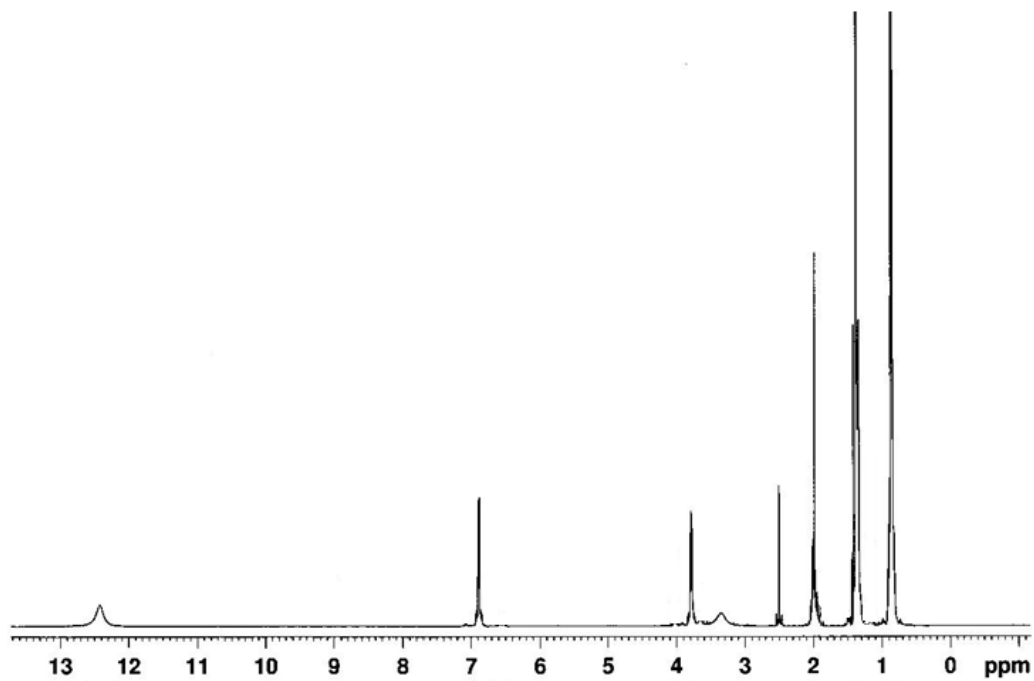
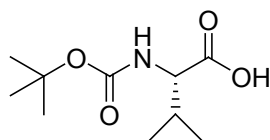


Figure S1: ^1H NMR (500 MHz, $\text{DMSO-}d_6$) spectra of Boc-Val(1)-OH 2.

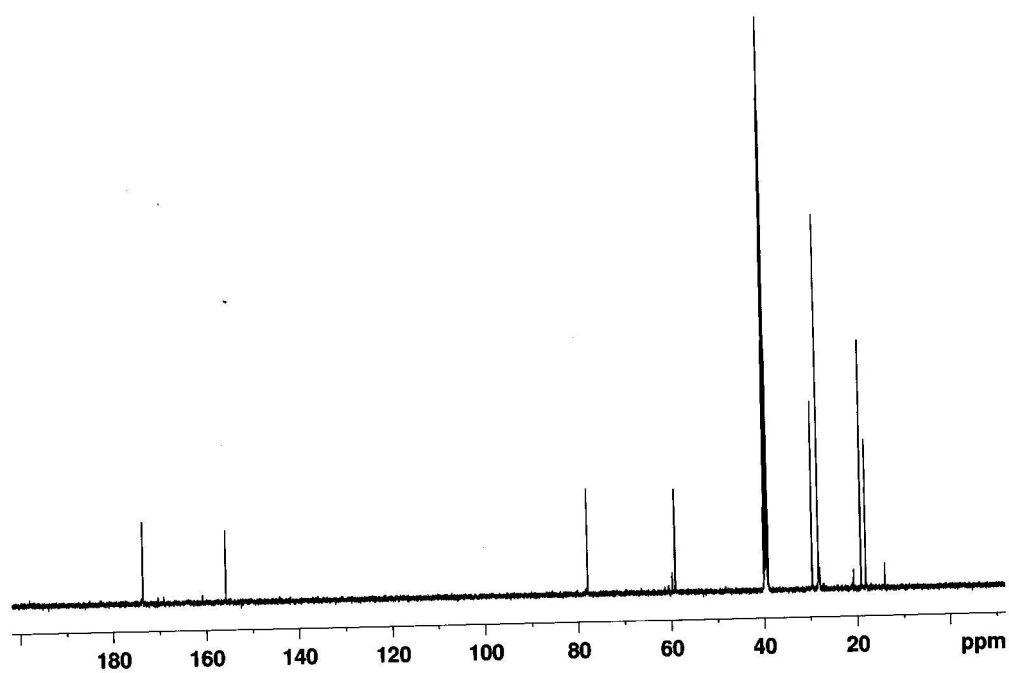


Figure S2: ^{13}C NMR (125 MHz, $\text{DMSO-}d_6$) spectra of Boc-Val(1)-OH 2.

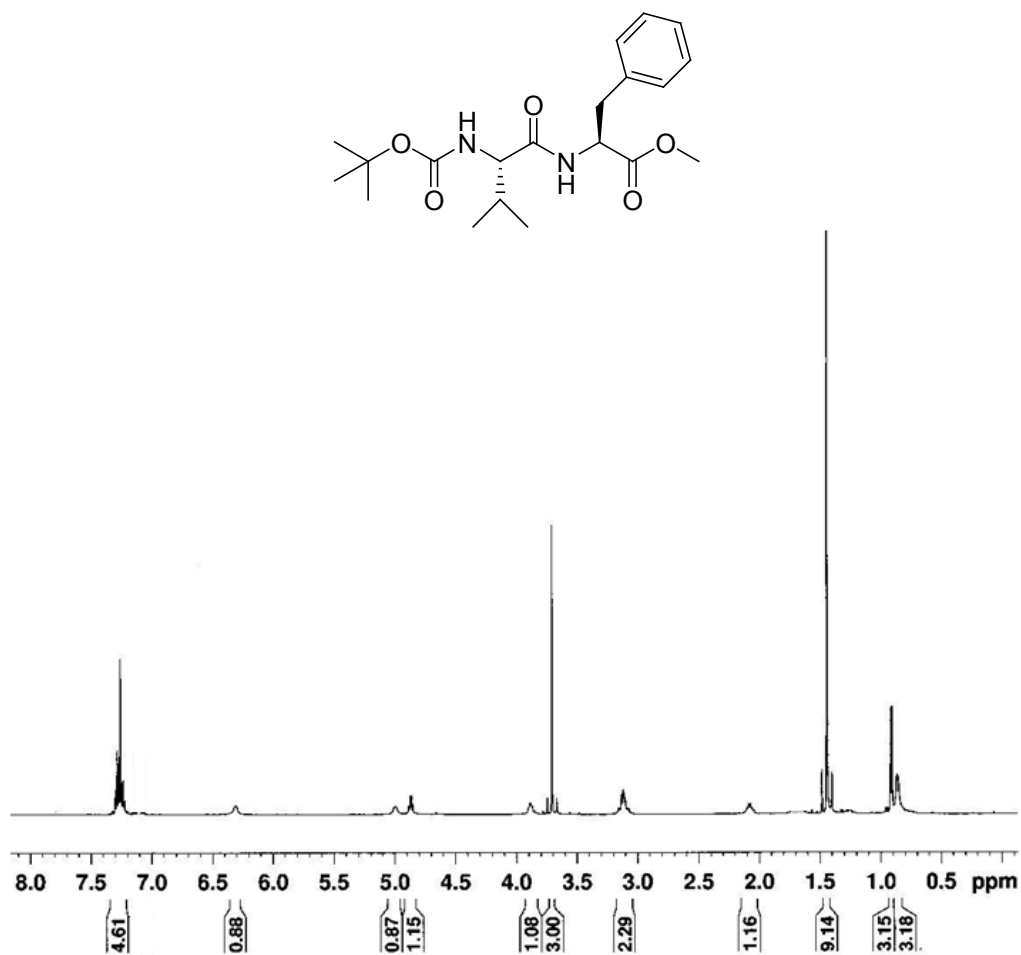


Figure S3: ¹H NMR (500 MHz, CDCl₃) spectra of Boc-Val(1)-Phe(2)-OMe 3.

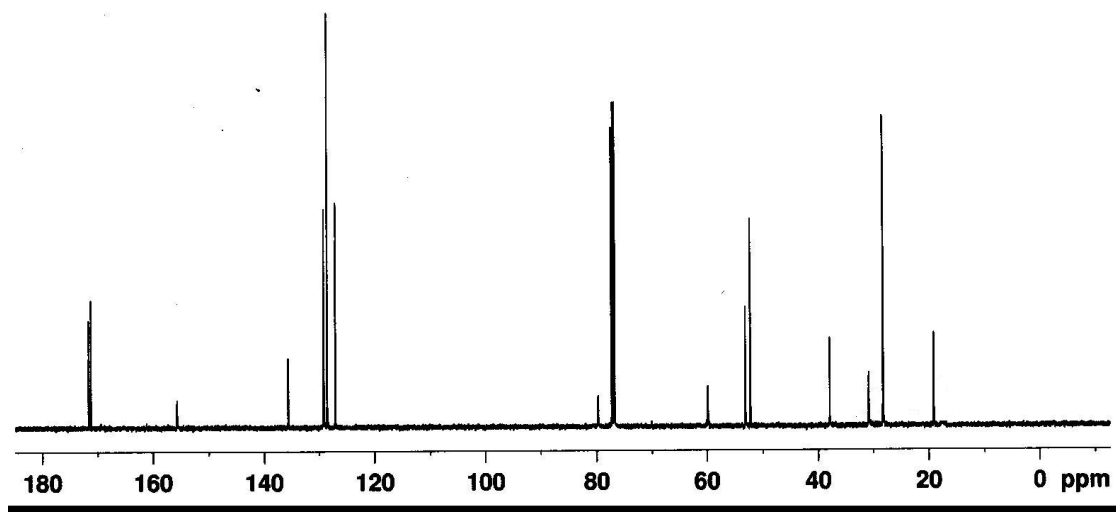


Figure S4: ¹³C NMR (125 MHz, CDCl₃) spectra of Boc-Val(1)-Phe(2)-OMe 3.

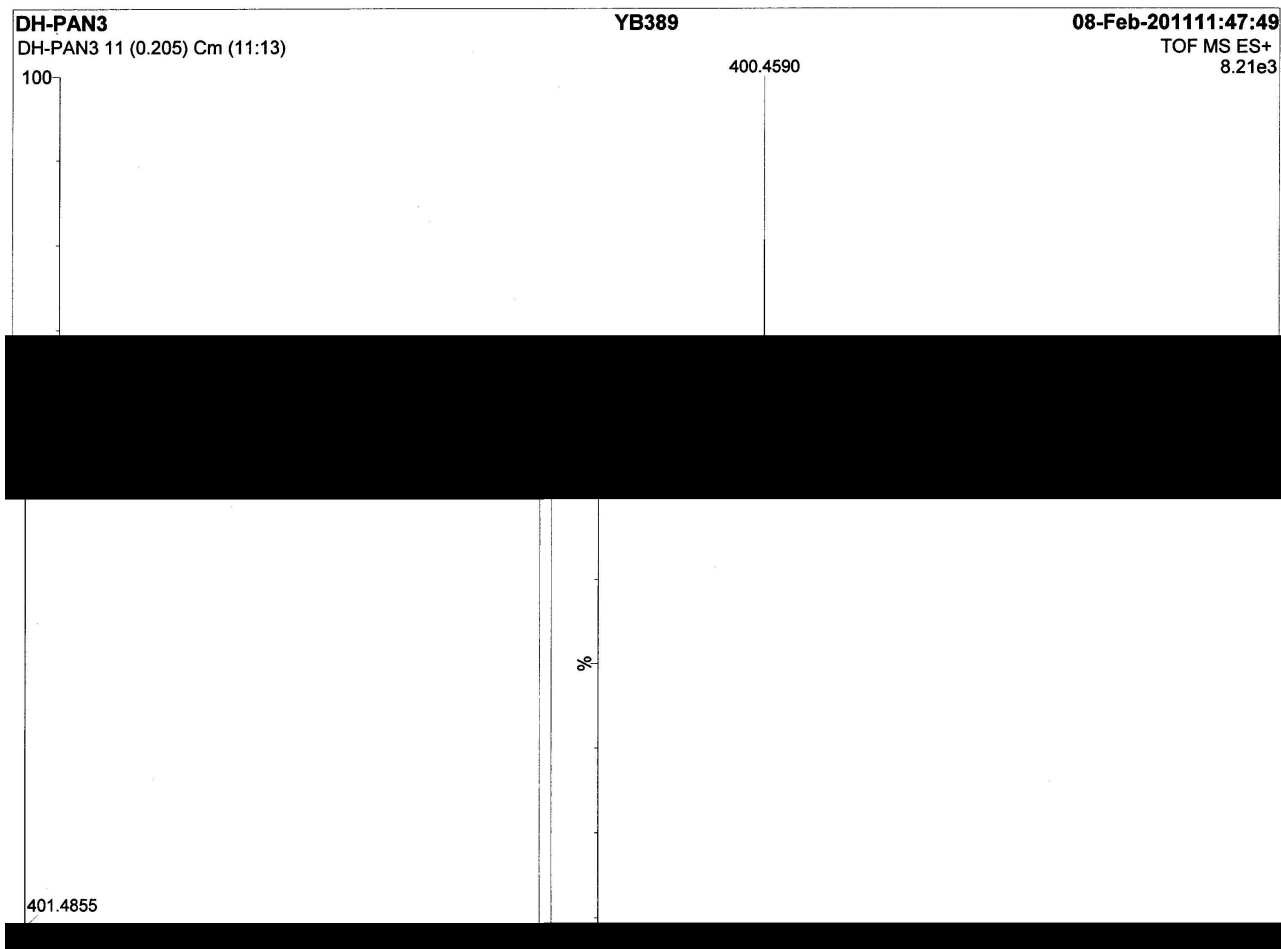


Figure S5: Mass spectra of Boc-Val-Phe-OMe 3.

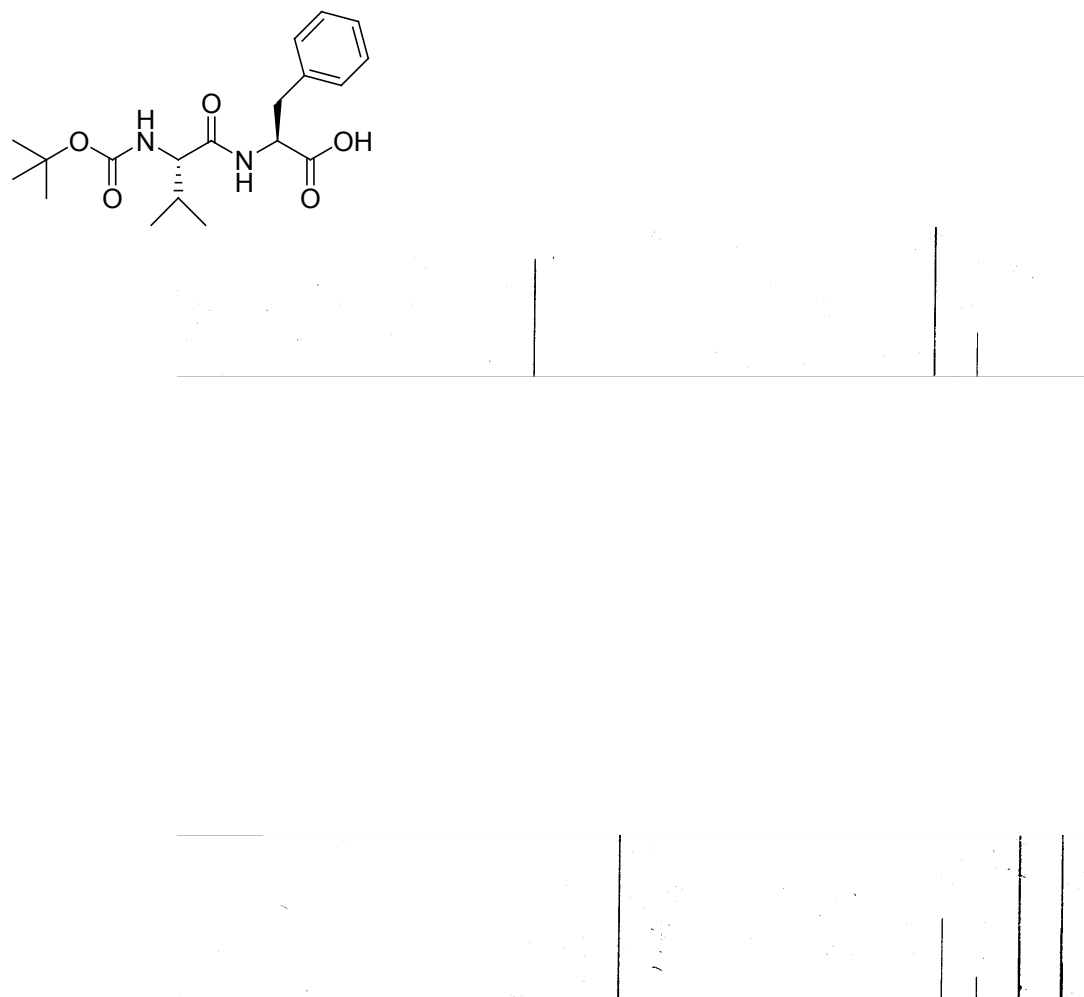


Figure S6: ¹H NMR (400 MHz, DMSO-*d*₆) spectra of Boc-Val(1)-Phe- OH 4.



Figure S7: ¹³C NMR (125 MHz, DMSO-*d*₆) spectra of Boc-Val(1)-Phe(2)-OH 4.

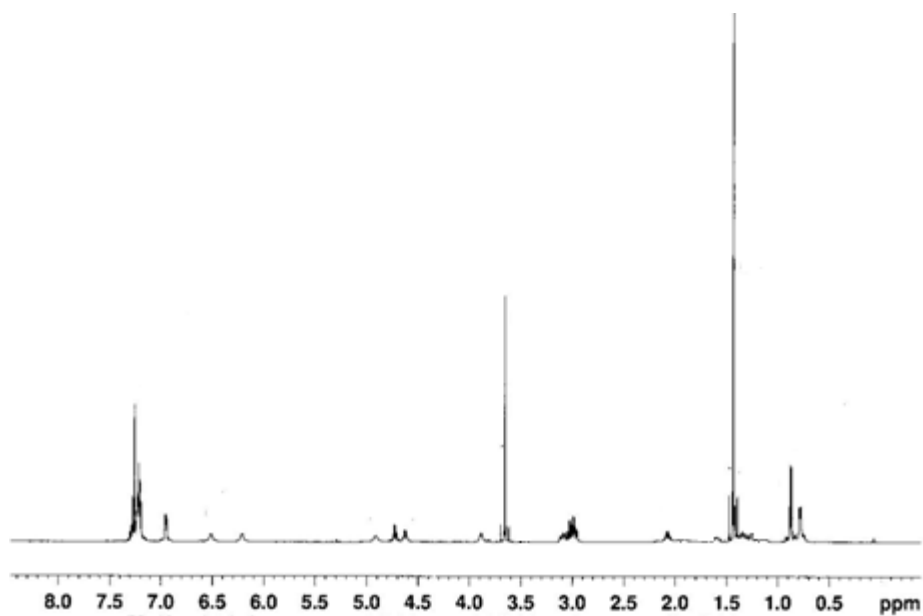
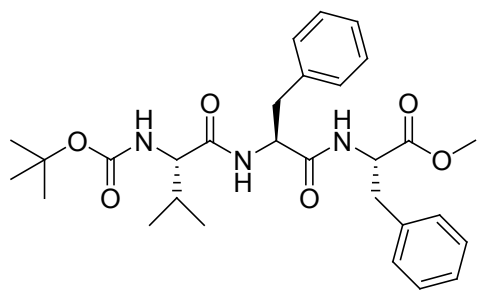


Figure S8: ¹H NMR (500 MHz, CDCl₃) spectra of Boc-Val(1)-Phe(2)-Phe(3)-OMe **1**.

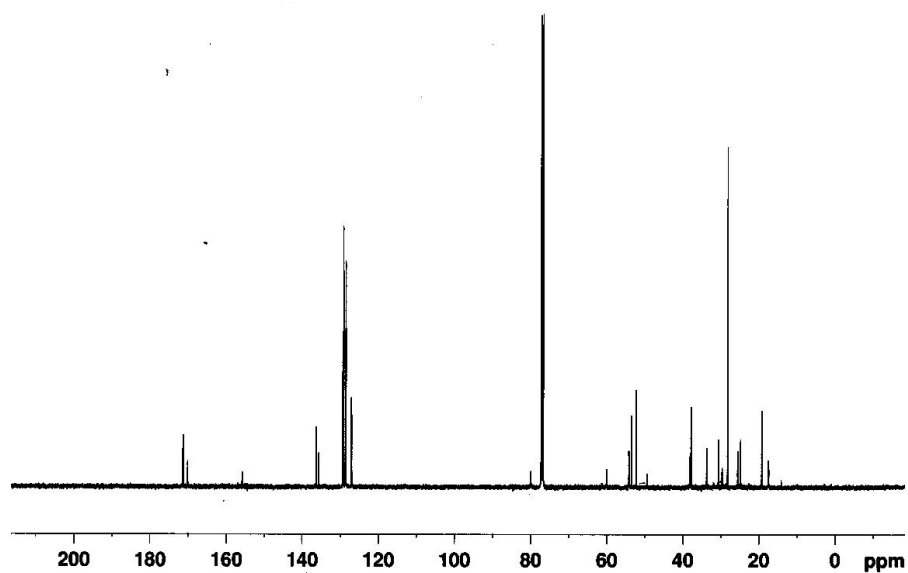


Figure S9: ¹³C NMR (125 MHz, CDCl₃) spectra of Boc-Val(1)-Phe(2)-Phe(3)-OMe **1**.

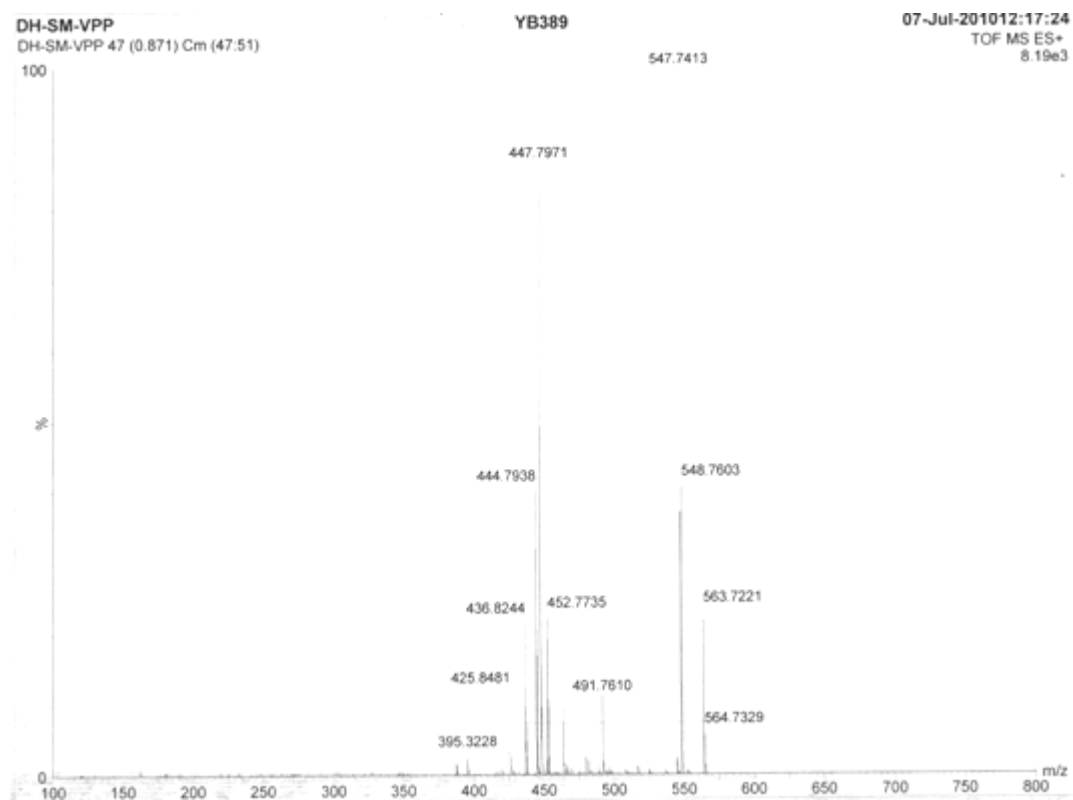


Figure S10: Mass spectra of Boc-Val(1)-Phe(2)-Phe(3)-OMe 1.