

Supporting Information

A supramolecular topical gel derived from a non steroidal anti-inflammatory drug-fenoprofen capable of treating skin inflammation in mice

Joydeb Majumder, Pavani Yedoti, and Parthasarathi Dastidar*

Department of Organic Chemistry, Indian Association for the Cultivation of Science,
2A & 2B Raja S. C. Mullick Road, Kolkata-700032, India.

E-mail: ocpd@iacs.res.in, Phone: +91-33-2473-4971, Fax: +91-33-2473-2805

Table of Contents

¹ H-NMR and ¹³ C-NMR spectra of fenoprofen derivatives 1-4	3-6
Gelation data (Table S1).....	7
Dropping ball experiment for T _{gel} determination.....	7
HPLC studies of the gelator bioconjugate 2	8-10

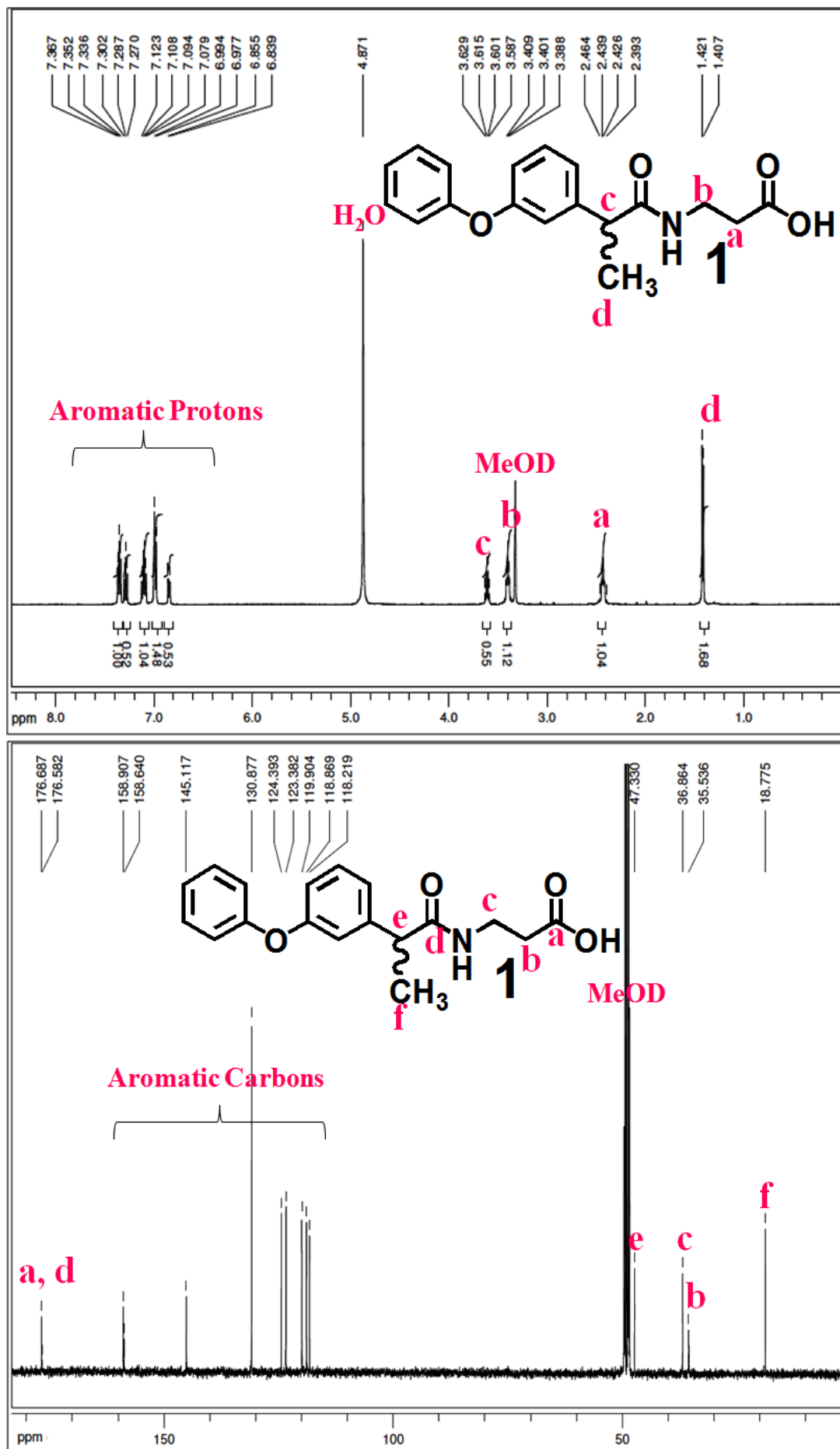


Figure S1: ¹H-NMR and ¹³C-NMR spectra of **1** in MeOD.

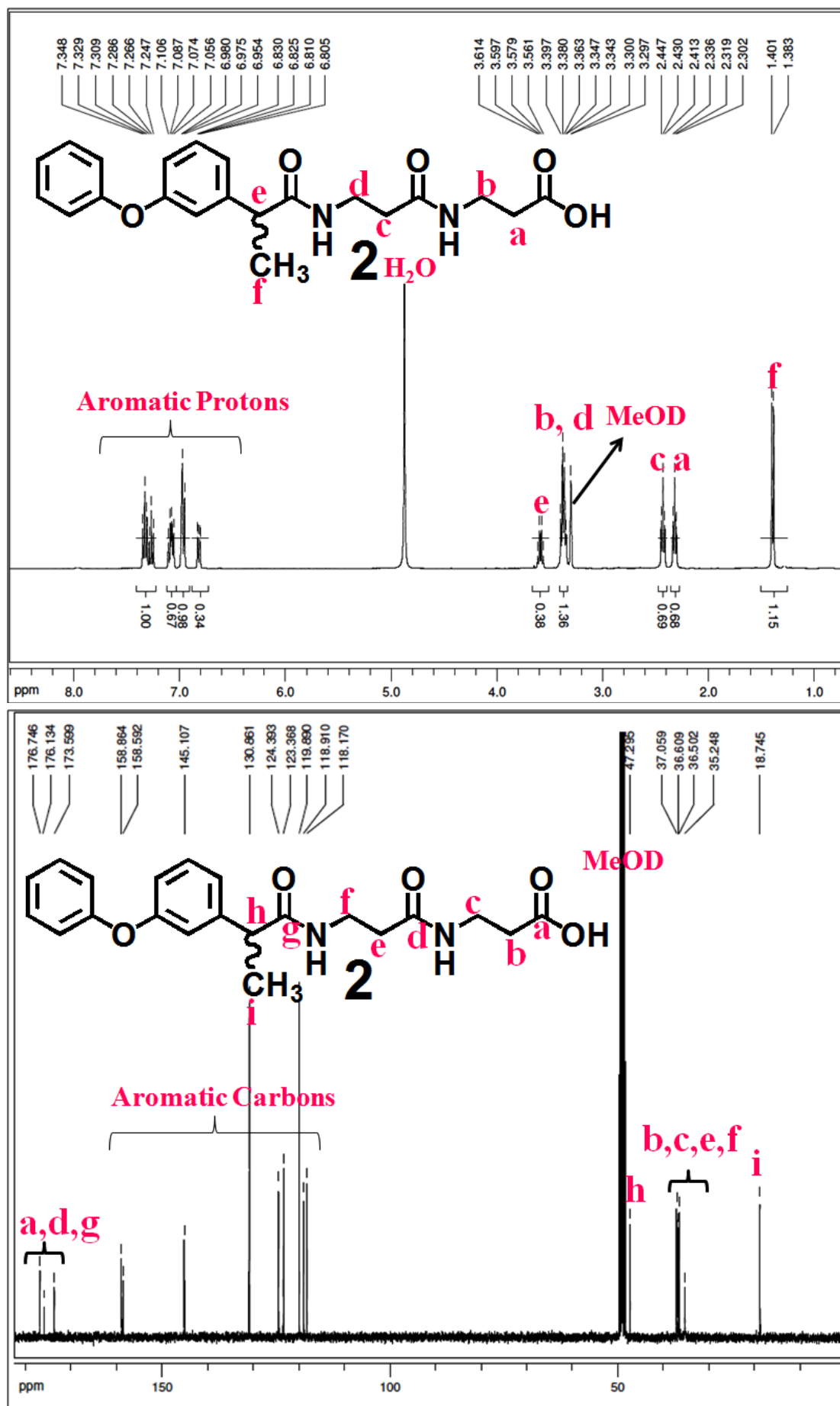


Figure S2: ¹H-NMR and ¹³C-NMR spectra of 2 in MeOD.

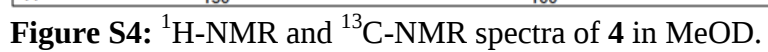


Table S1: Gelation data of fenoprofen derivatives **1-4**^a.

Solvent/Compounds	1	2	3	4
Water	P	CS	CS	P
Methylsalicylate	S	Gel MGC=3.0 wt %	S	S
Methylsalicylate And 1 % Menthol	S	Gel MGC=3.0 wt %	S	S

^a P = Precipitate, S = Soluble, CS = Colloidal solution, MGC = minimum gelator concentration.

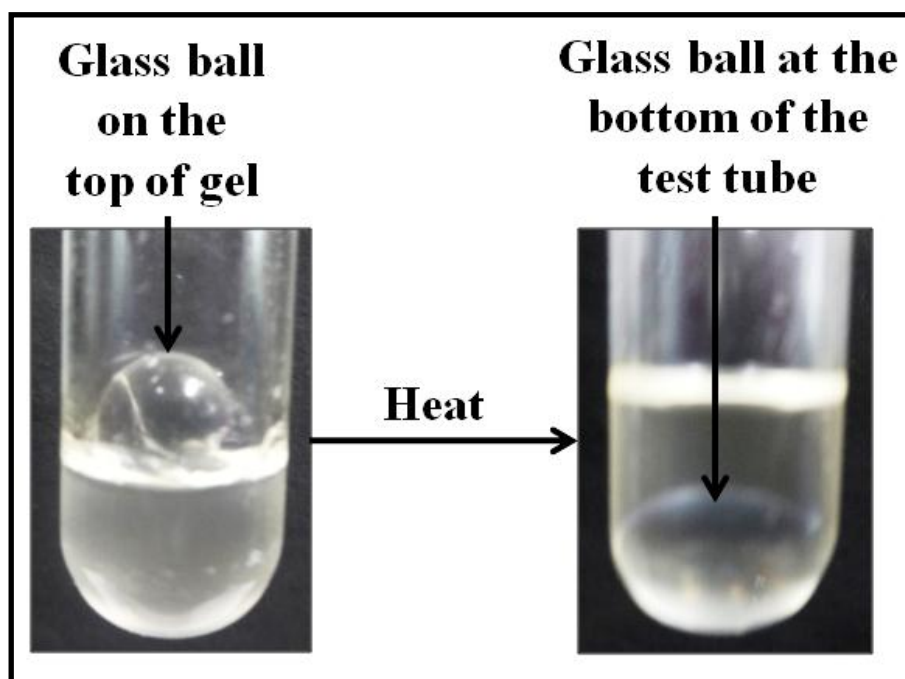


Figure S5: Dropping ball experiment for T_{gel} determination.

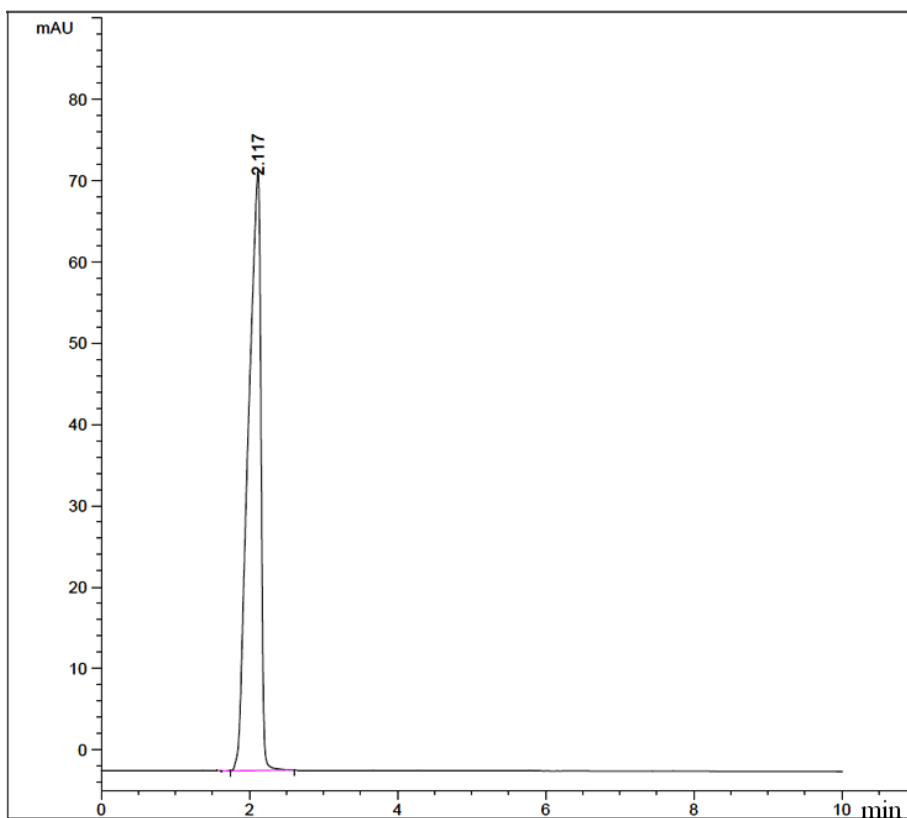


Figure S6: Standard HPLC trace of the gelator 2.

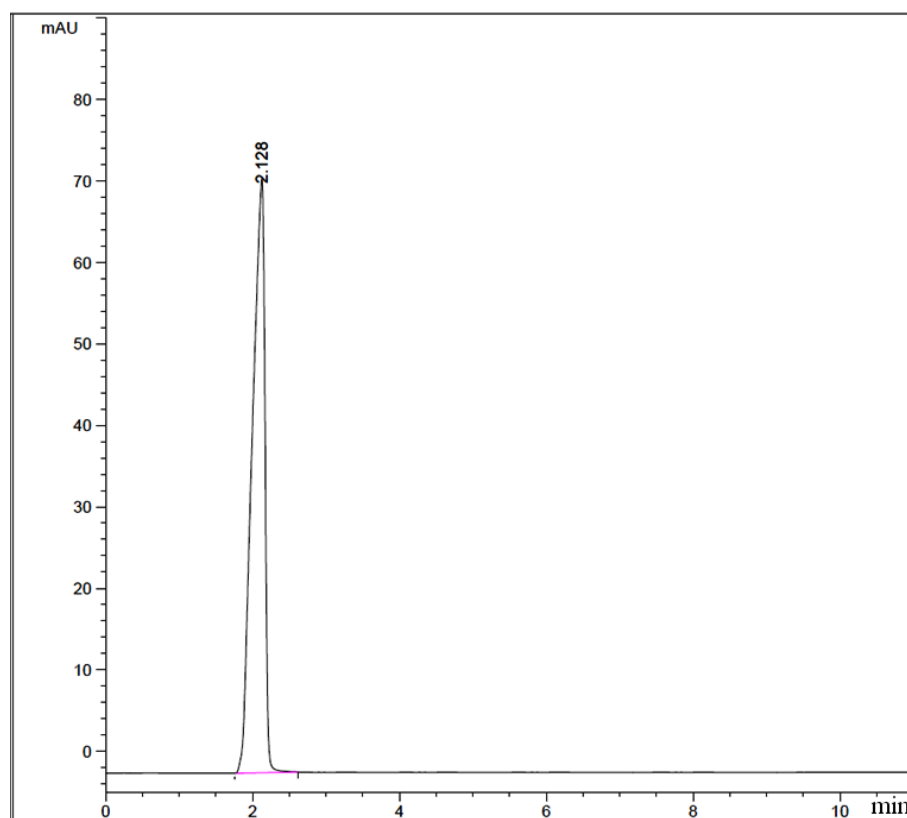


Figure S7: HPLC traces of gelator 2 after 72 h incubation with PBS at 37° C.

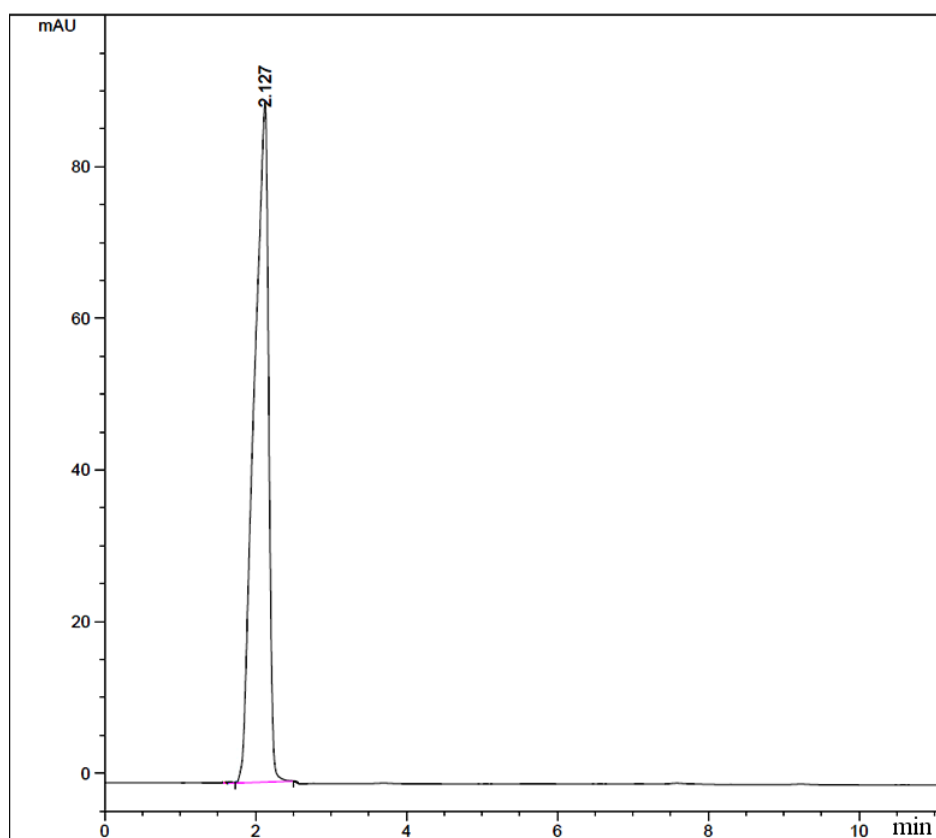


Figure S8: HPLC traces of gelator **2** after 72 h incubation with carboxypeptidase-Y at 25° C.

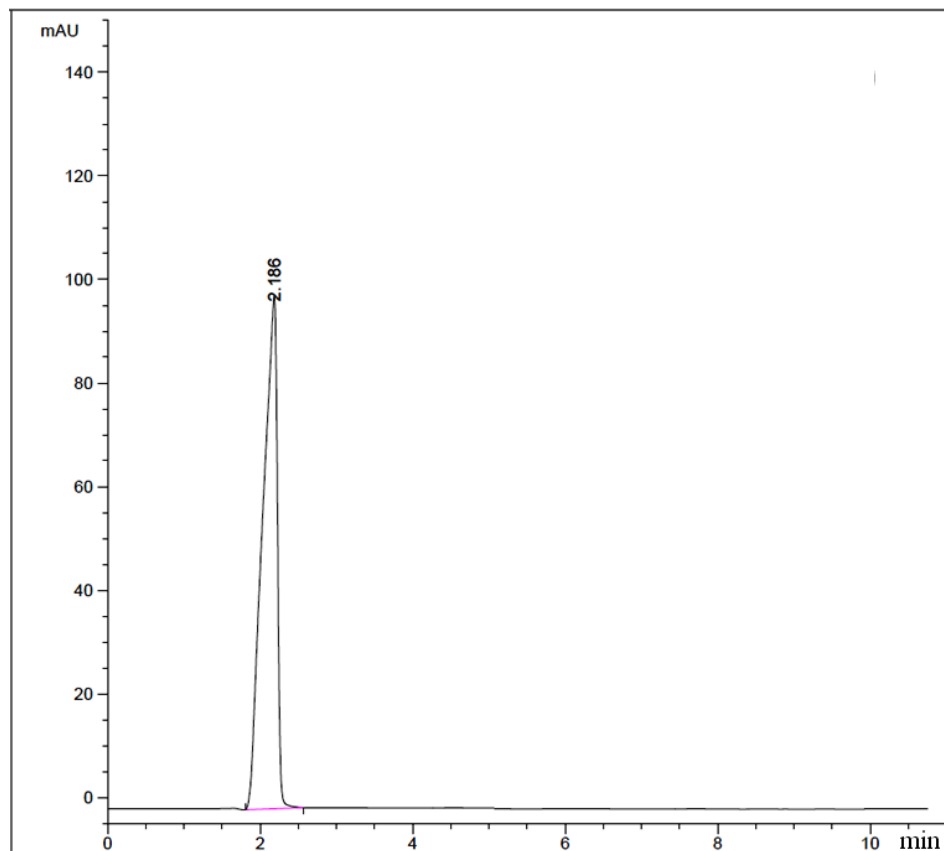


Figure S9: HPLC traces of gelator **2** after 72 h incubation with aminopeptidase at 25° C.

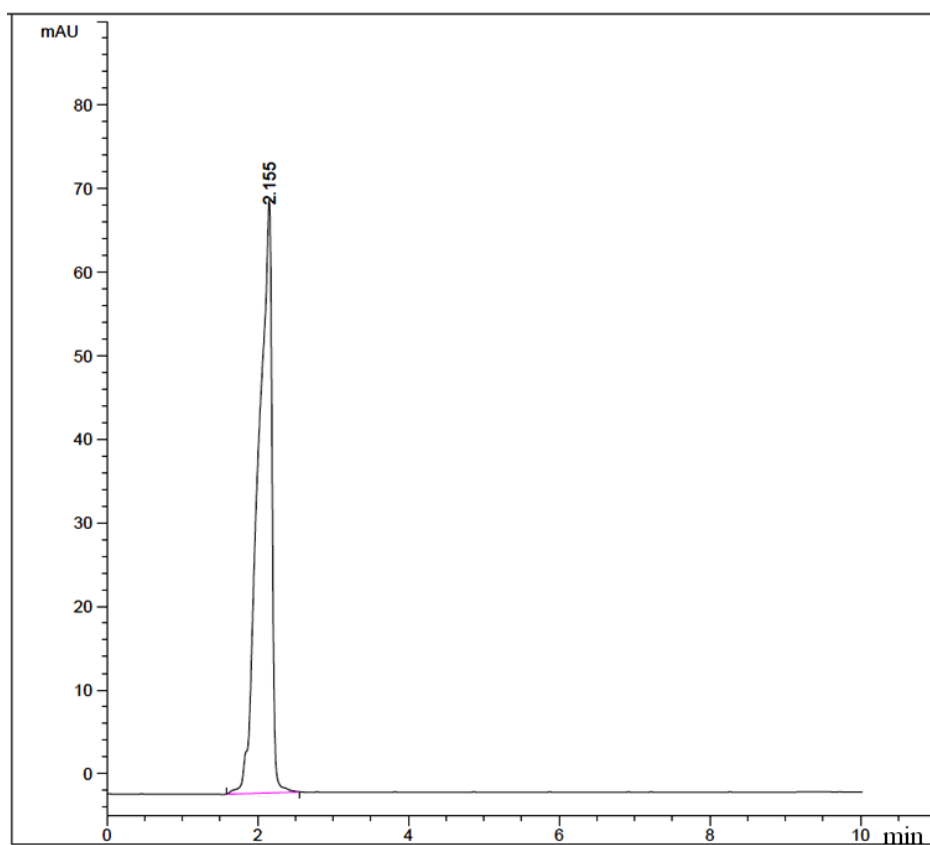


Figure S10: HPLC traces of gelator **2** after 72 h incubation with blood serum of BALB/c mouse at 37° C.