

Supporting Information

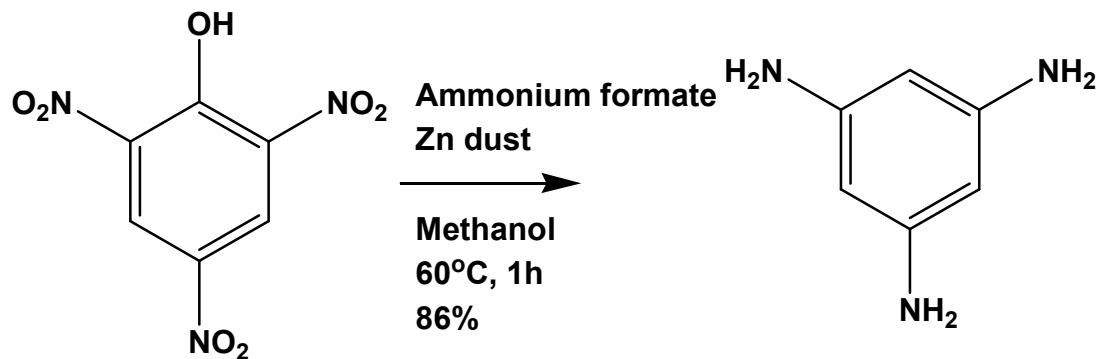
Dynamic self-assembled polymer: HCl responsive inversion of supramolecular polymer handedness †

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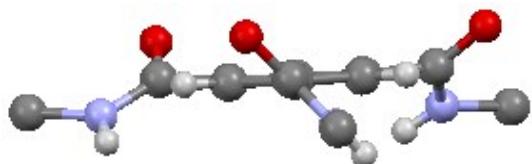
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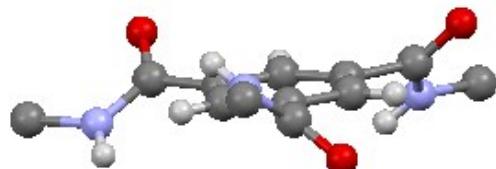
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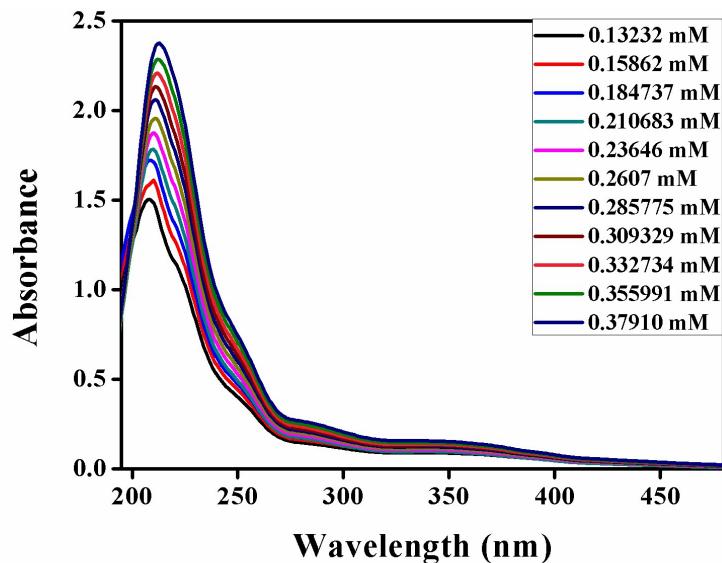
ESI Scheme 1. Schematic representation of synthesis of 1,3,5-triamino benzene from picric acid.



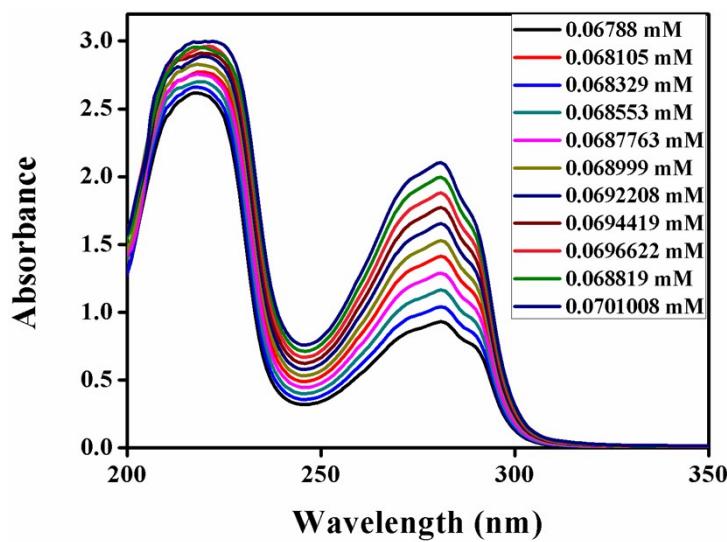
ESI Fig. S1 Trisamide with 3:0 conformation.



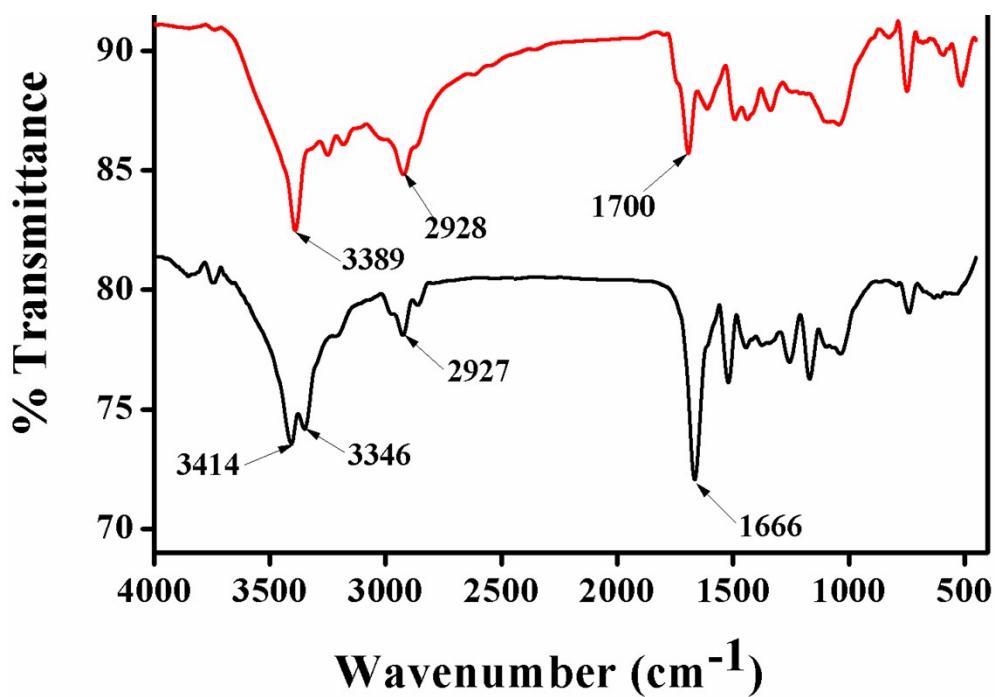
ESI Fig. S2 Trisamide with 2:1 conformation.



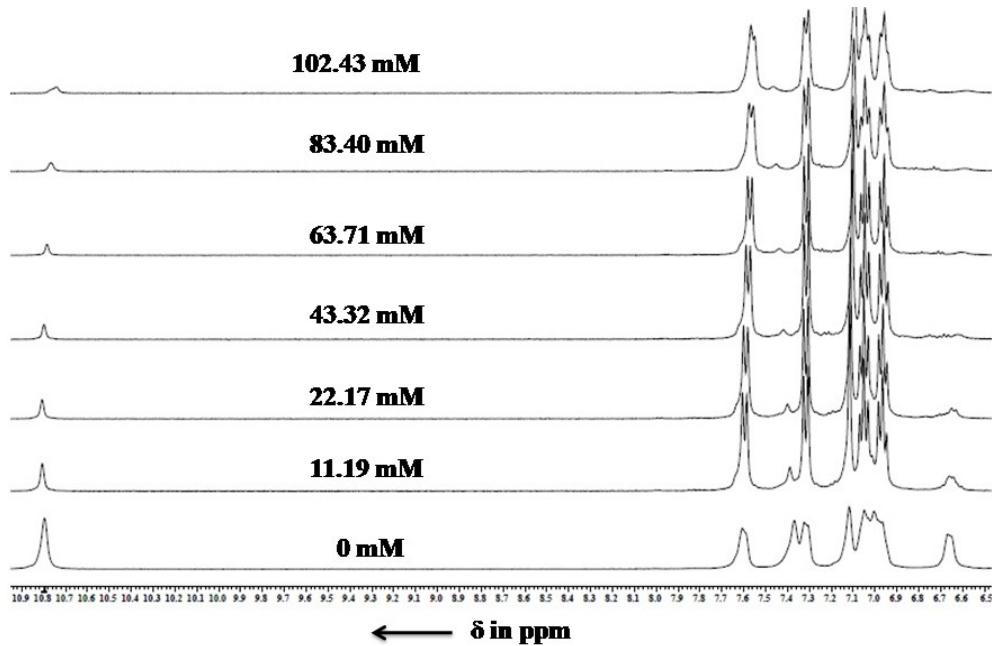
ESI Fig. S3: UV-vis spectra of trisamide 1 with increasing concentration.



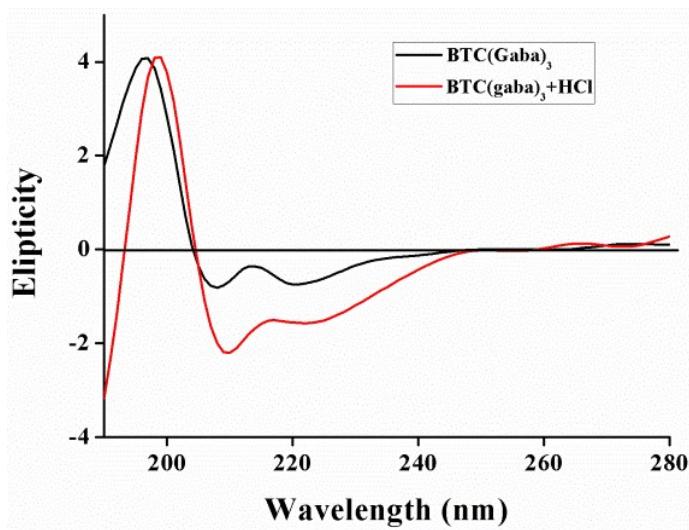
ESI Fig. S4: UV-vis spectra of trisamide 2 with increasing concentration.



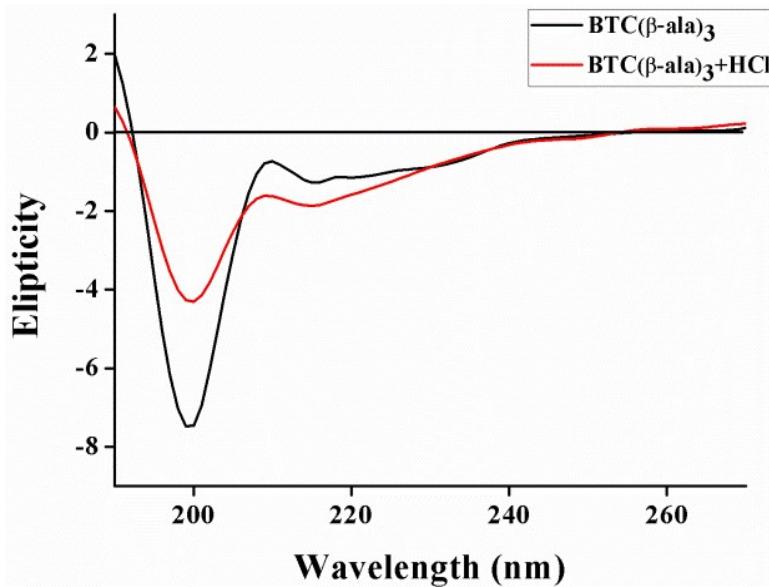
ESI Fig. S5: FT-IR spectra of trisamide **2** in absence of HCl (black) and in presence of HCl (red).



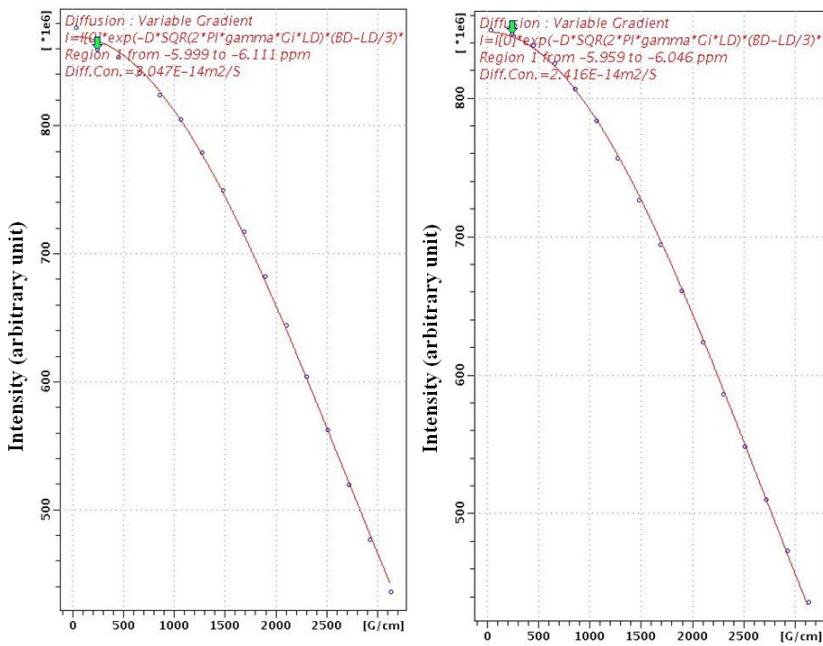
ESI Fig. S6: The acid dependence of NH chemical shifts of trisamide **2** at varying concentrations of HCl.



ESI Fig. S7: The CD spectra of trisamide containing γ -aminobutyric acid in methanol without HCl (black) and in presence of HCl (red).



ESI Fig. S8: The CD spectra of trisamide containing β -alanine in methanol without HCl (black) and in presence of HCl (red).



ESI Fig. S9: The plot of DOSY NMR of trisamide **1** with conc 0.075mol (left) and plot of DOSY NMR of trisamide **1** with conc 0.075mol after addition of 0.0075mol HCl (right).

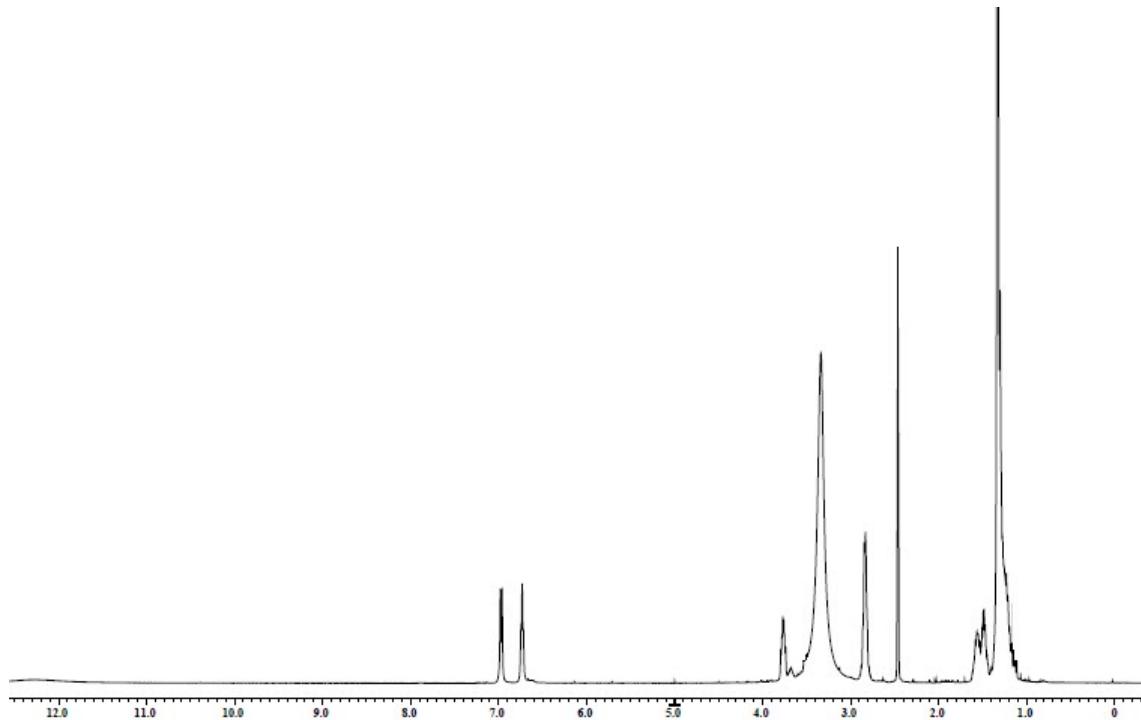


Fig S10: ${}^1\text{H}$ NMR (DMSO-*d*₆, 500 MHz, δ in ppm) of Boc₂-Lys-OH.

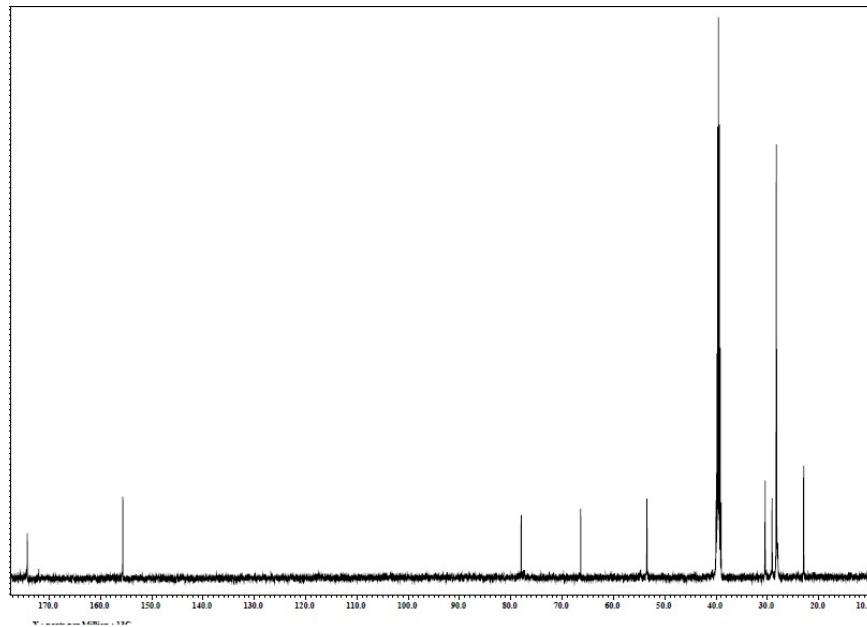


Fig. S11: ¹³C NMR (DMSO-*d*₆, 125 MHz, δ in ppm) of Boc₂-Lys-OH.

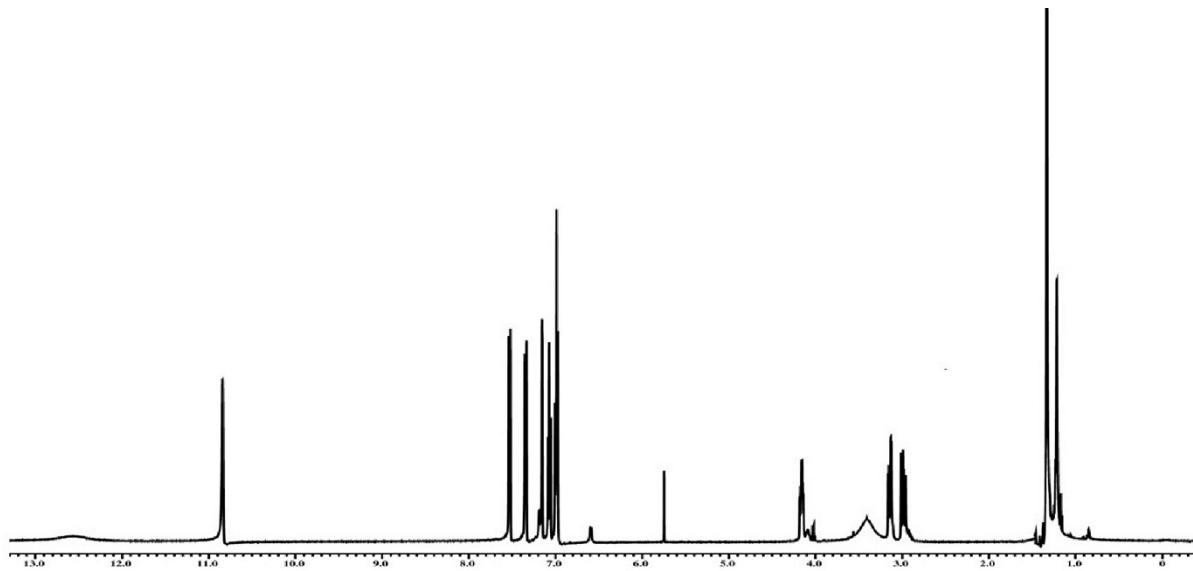


Fig. S12: ¹H NMR (500MHz, DMSO-*d*₆, δ in ppm) spectra of Boc-Trp-OH.

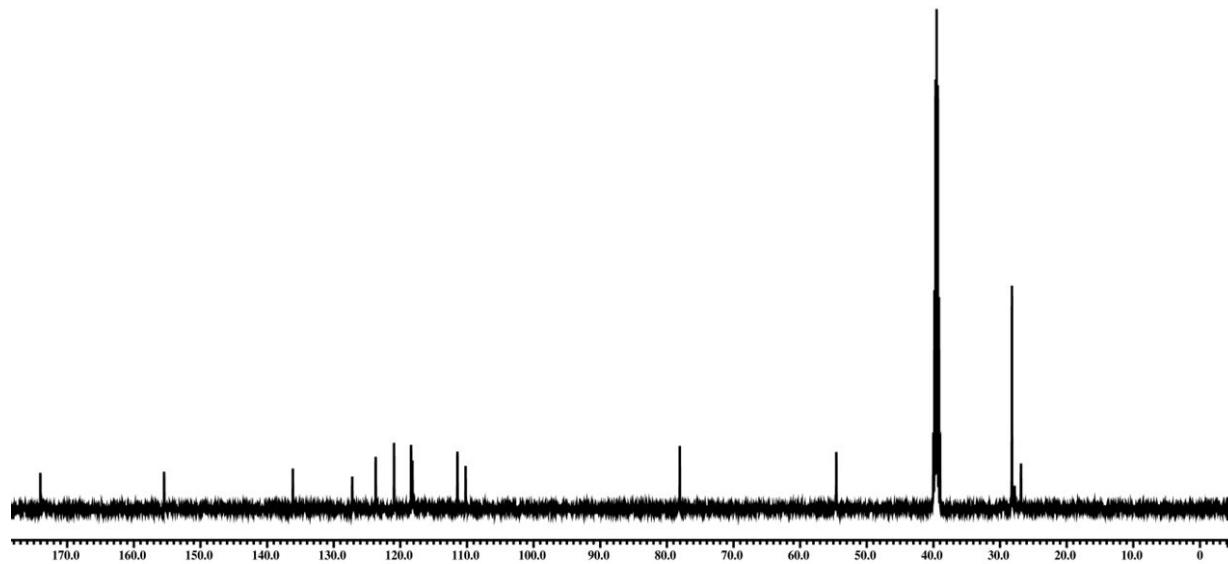


Fig. S13: ¹³C NMR (125 MHz, DMSO-*d*₆, δ in ppm) spectra of Boc-Trp-OH.

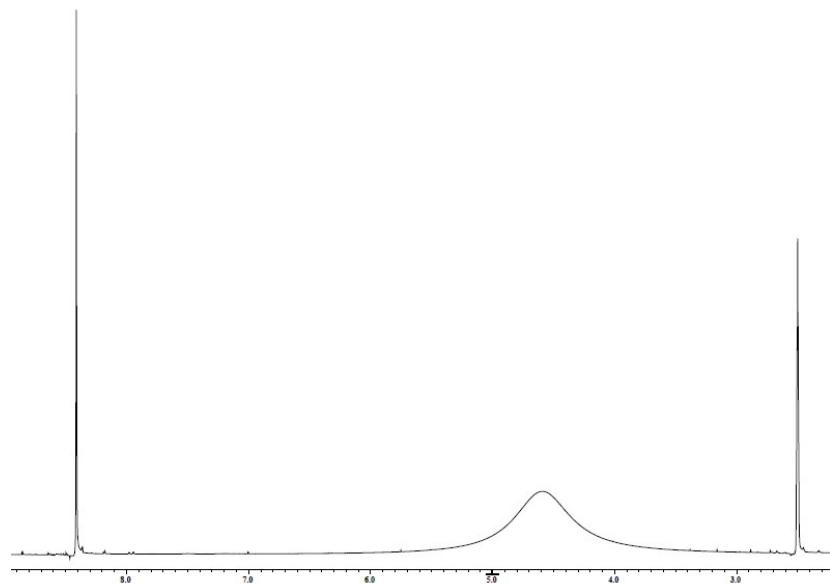


Fig. S14 ¹H NMR (DMSO-*d*₆, 400MHz, δ in ppm) of 1,3,5-triaminobenzene.

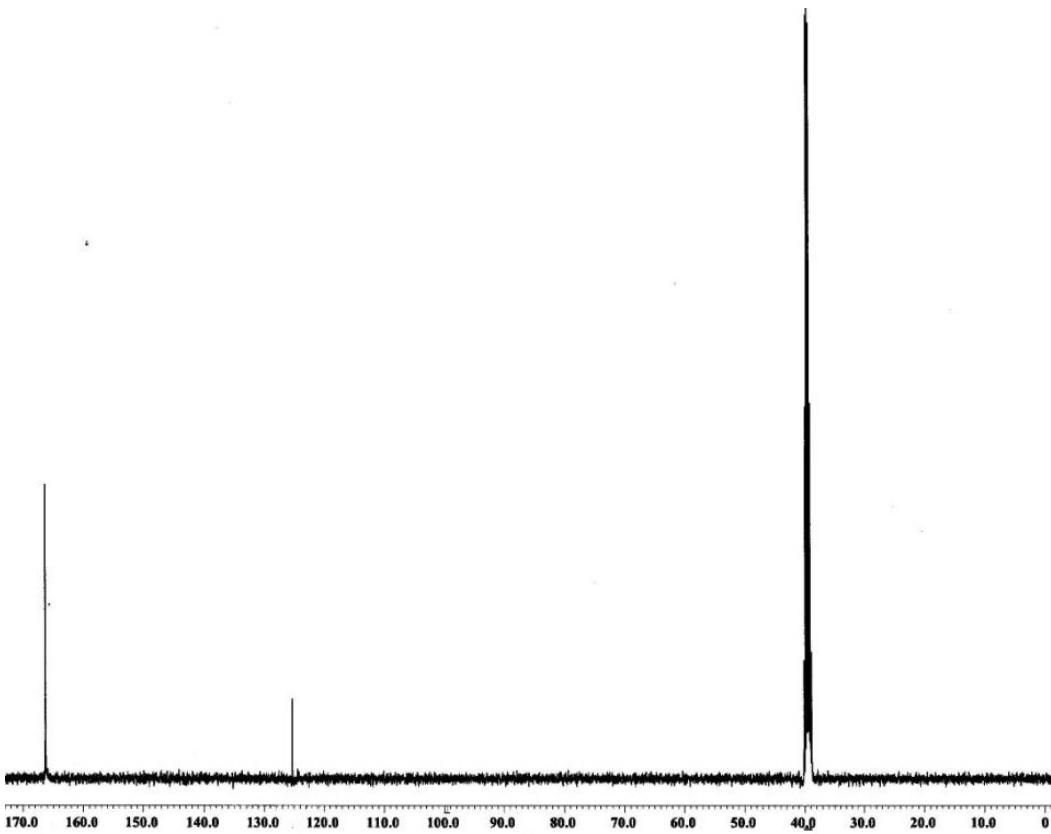


Fig. S15 ¹³C NMR (DMSO-*d*₆, 100 MHz, δ in ppm) of 1,3,5-triaminobenzene.

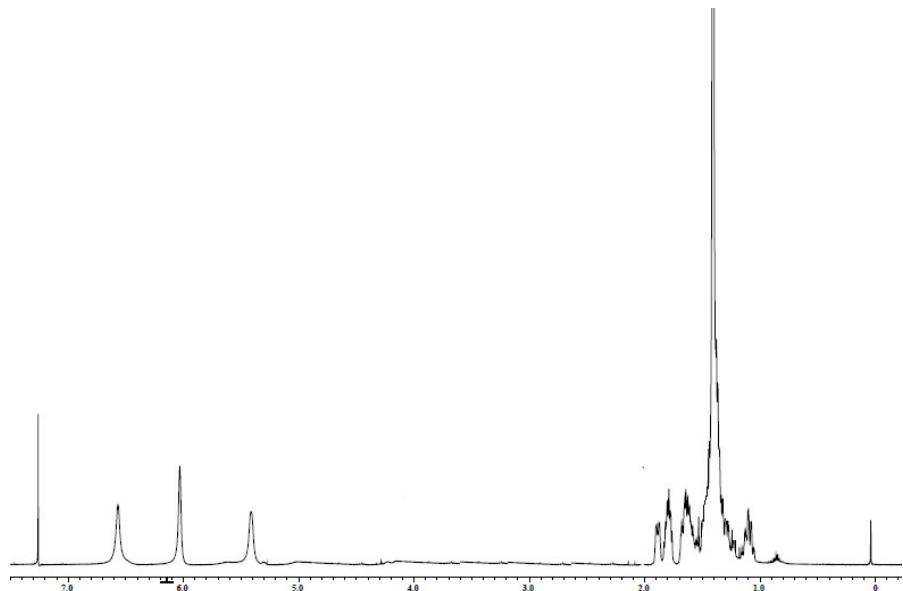


Fig. S16 ¹H NMR (CDCl₃, 500 MHz, δ in ppm) of Trisamide **1**.

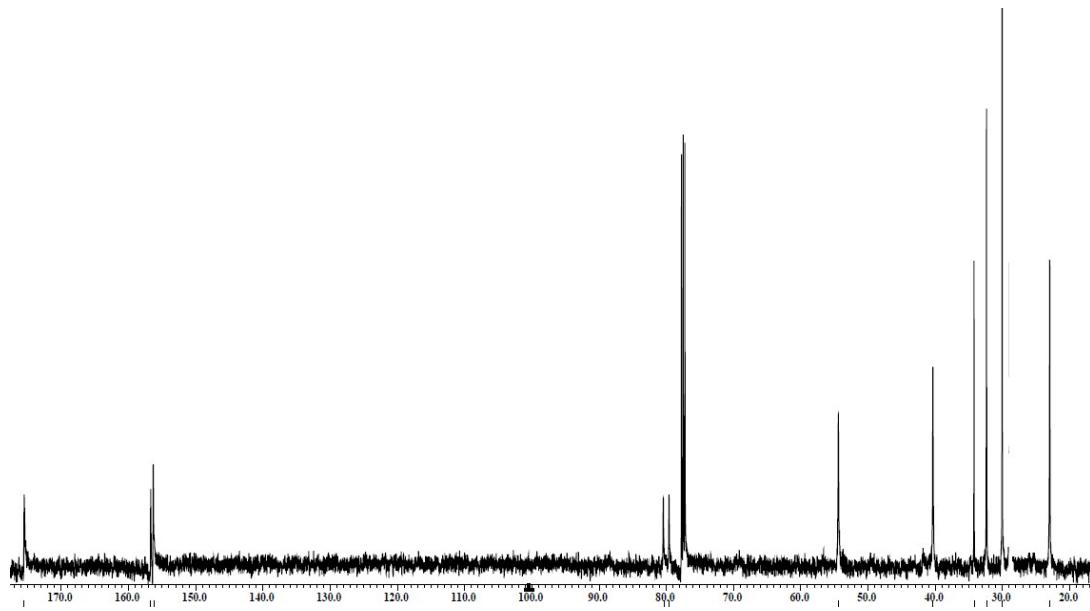


Fig. S17 ^{13}C NMR (CDCl_3 , 125 MHz, δ in ppm) of Trisamide 1.

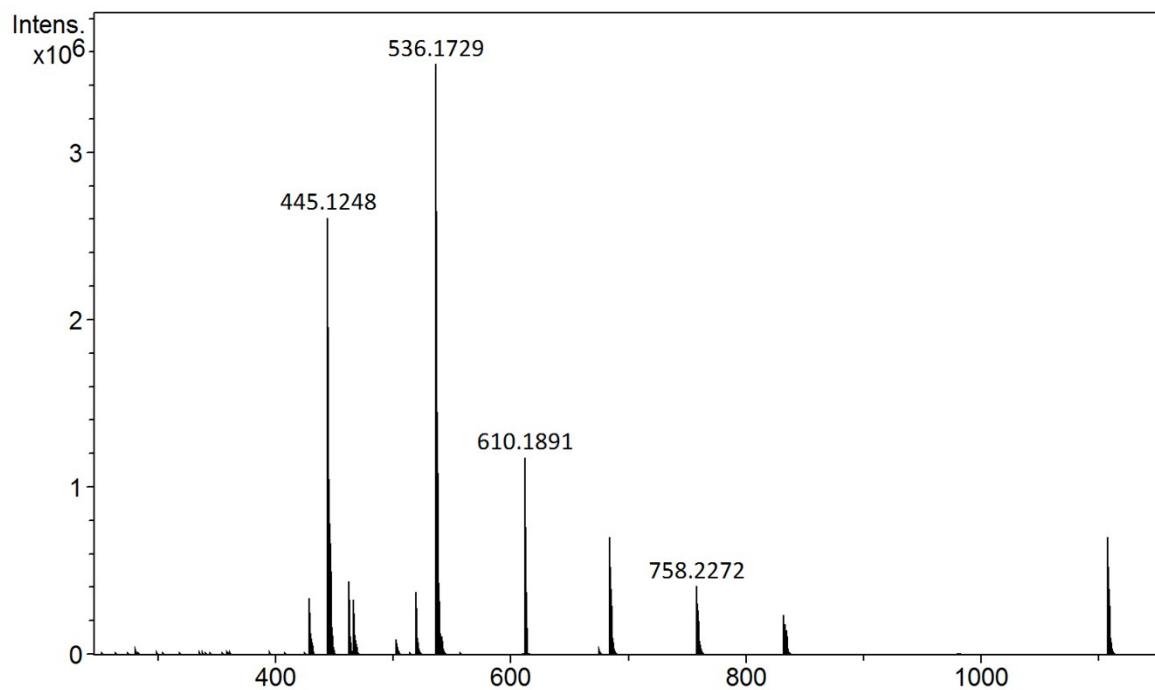


Fig. S18 Mass spectra of Trisamide 1.

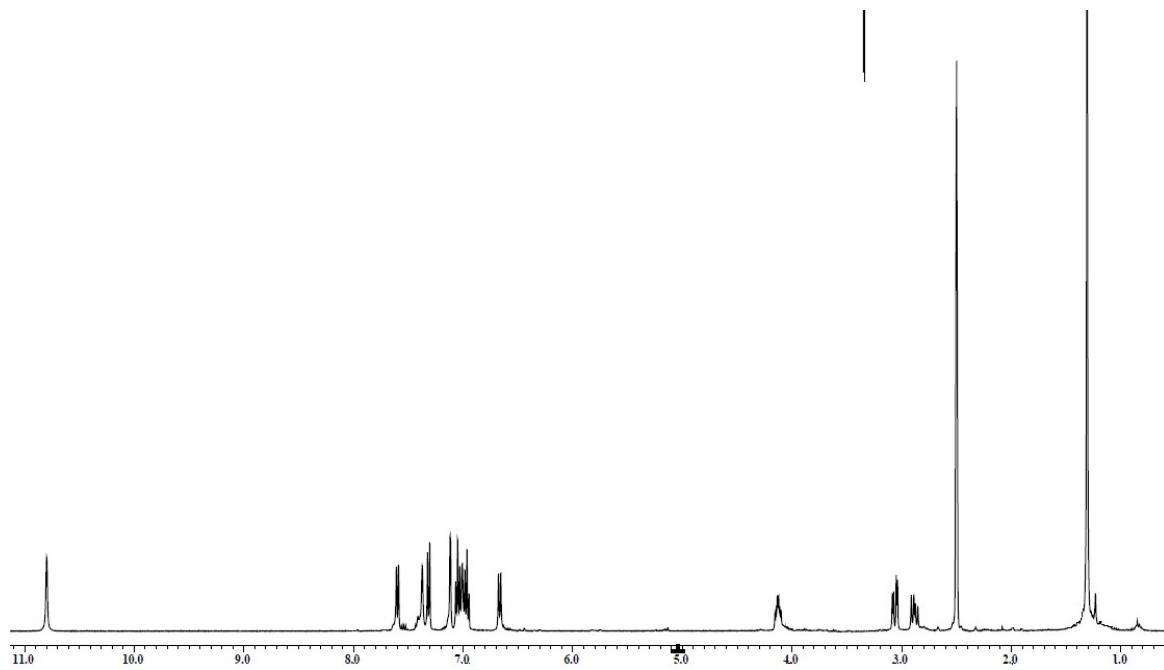


Fig. S19 ¹H NMR (DMSO-d₆, 500 MHz, δ in ppm) of Trisamide 2.

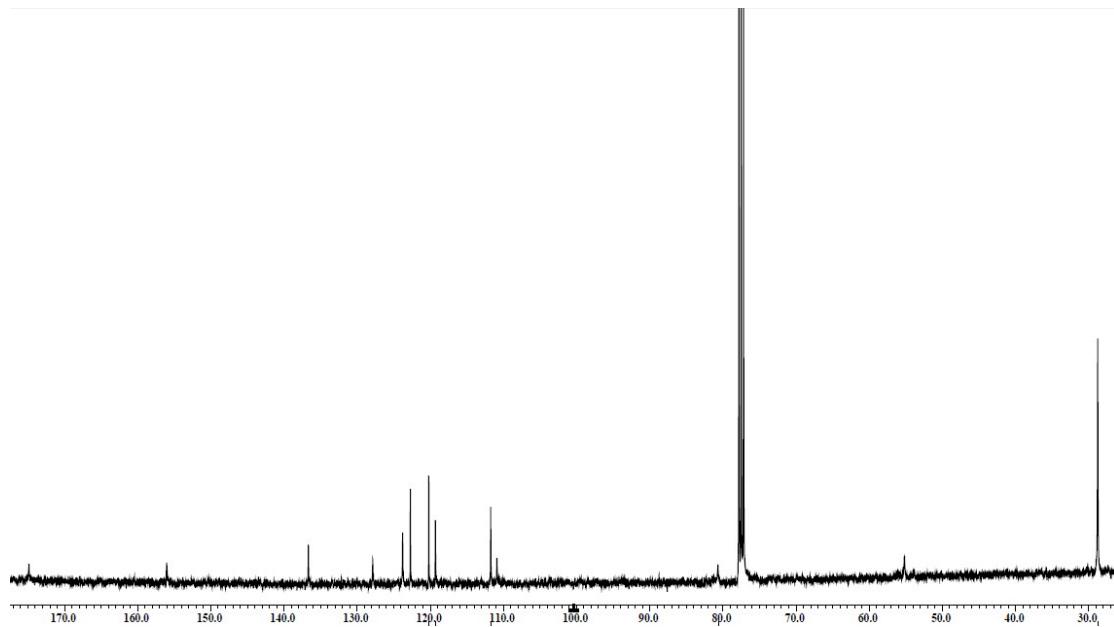


Fig. S20 ¹³C NMR (DMSO-d₆, 100 MHz, δ in ppm) of Trisamide 2.