Fluorescent 4-amino-1,8-naphthlimide Tröger's bases (TBNaps) possessing (orthogonal) 'α-amino acids', esters and di-peptides and their solvent depended photophysical properties

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Electronic Supporting Information

1. Select NMR spectra analysis of some 4-Nitro-, 4-Amino-Naps precursors and TBNaps products developed in this work

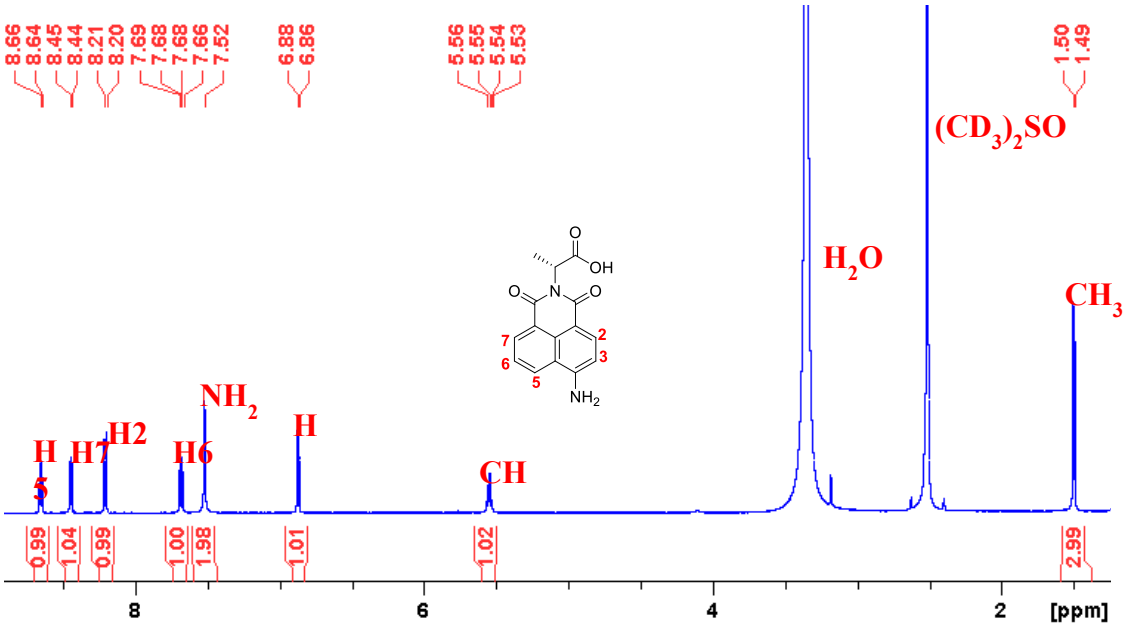

Figure S1. The ^{1}H NMR spectrum ($(CD_3)_2SO$, 600 MHz) of **10**

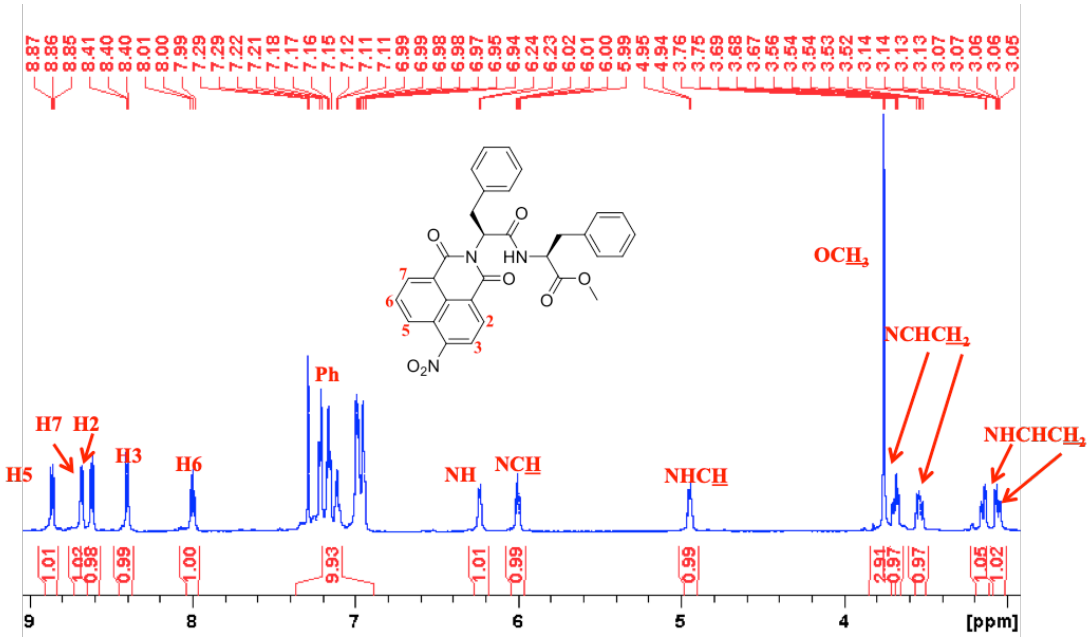

Figure S2. The ^{1}H NMR spectrum ($CDCl_3$, 600 MHz) of **19**

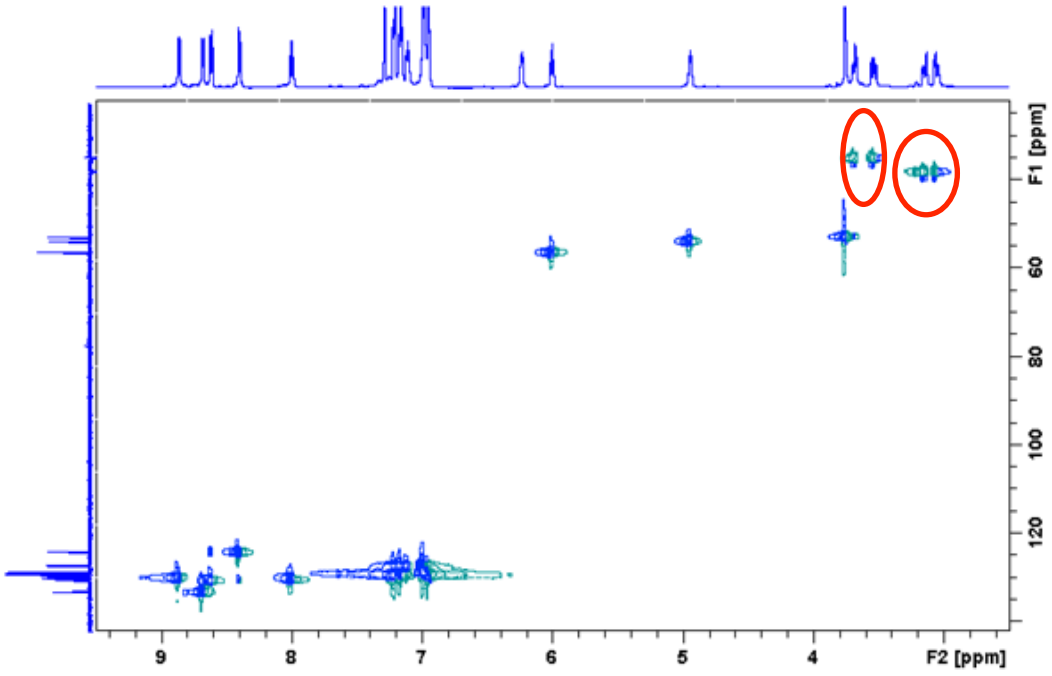

Figure S3. CH-COSY Spectrum ($CDCl_3$) of **19**

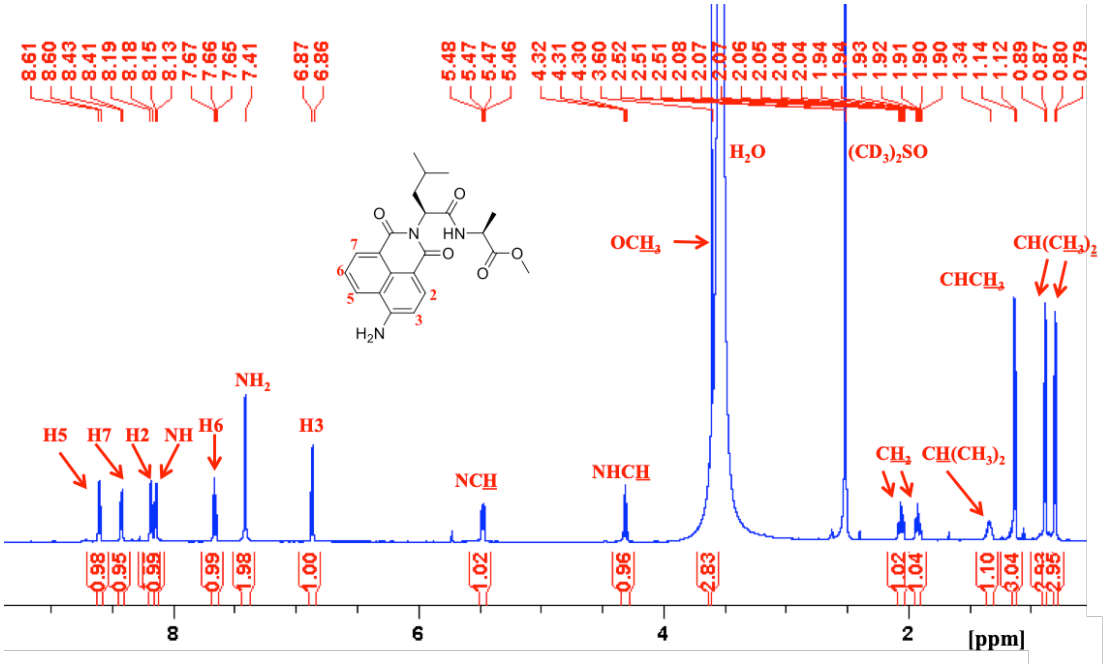

Figure S4. The ^{1}H NMR spectrum ($(CD_3)_2SO$, 600 MHz) of **22**

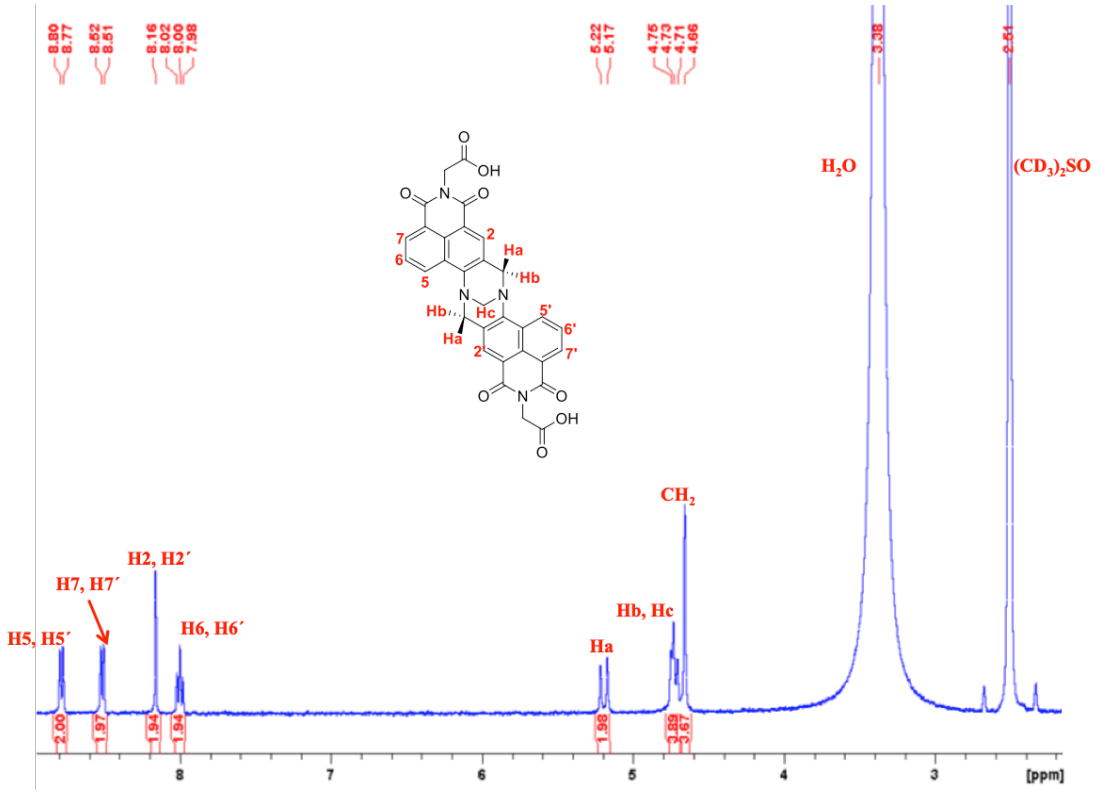

Figure S5. The ^{1}H NMR spectrum ($(CD_3)_2SO$, 400 MHz) of **25**

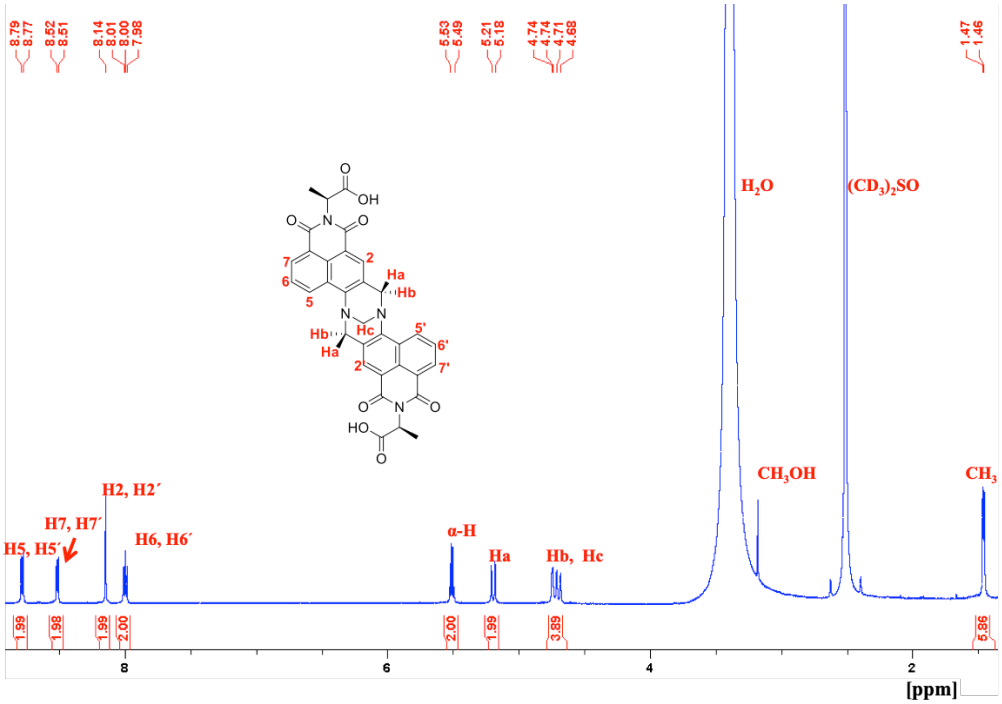

Figure S6. The ^{1}H NMR spectrum ($(CD_3)_2SO$, 600 MHz) of **26**

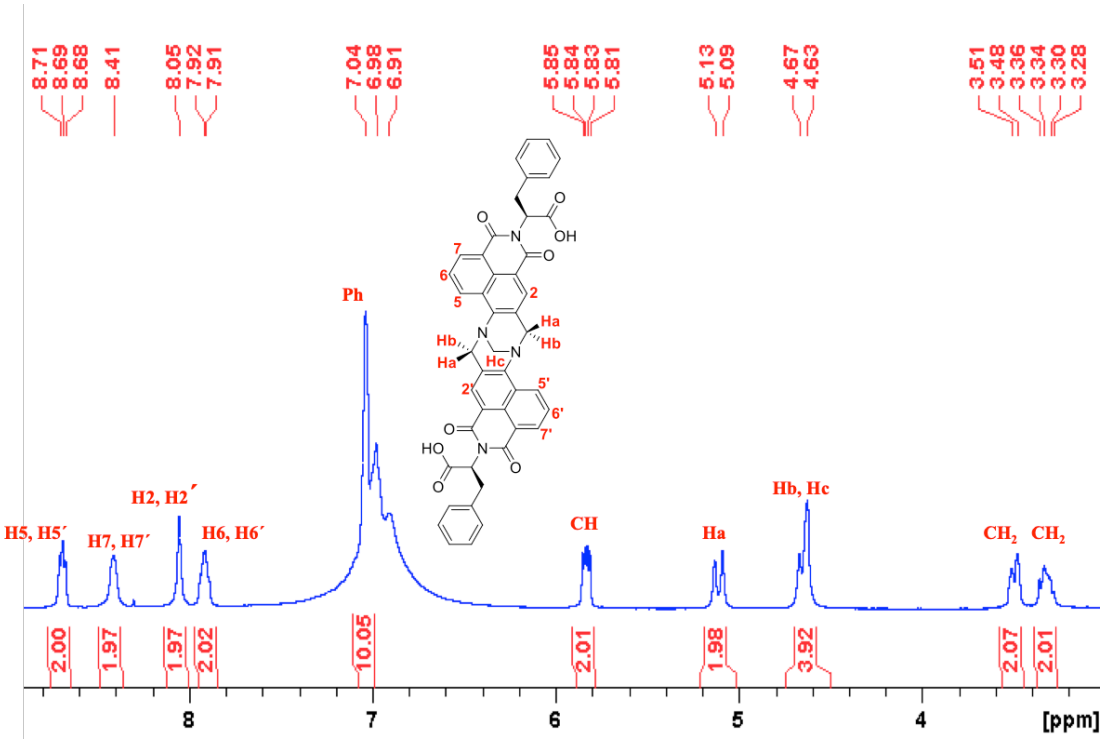

Figure S7. The ^{1}H NMR spectrum ($(CD_3)_2SO$, 600 MHz) of **28.** Enlarged version of that shown in Figure 2

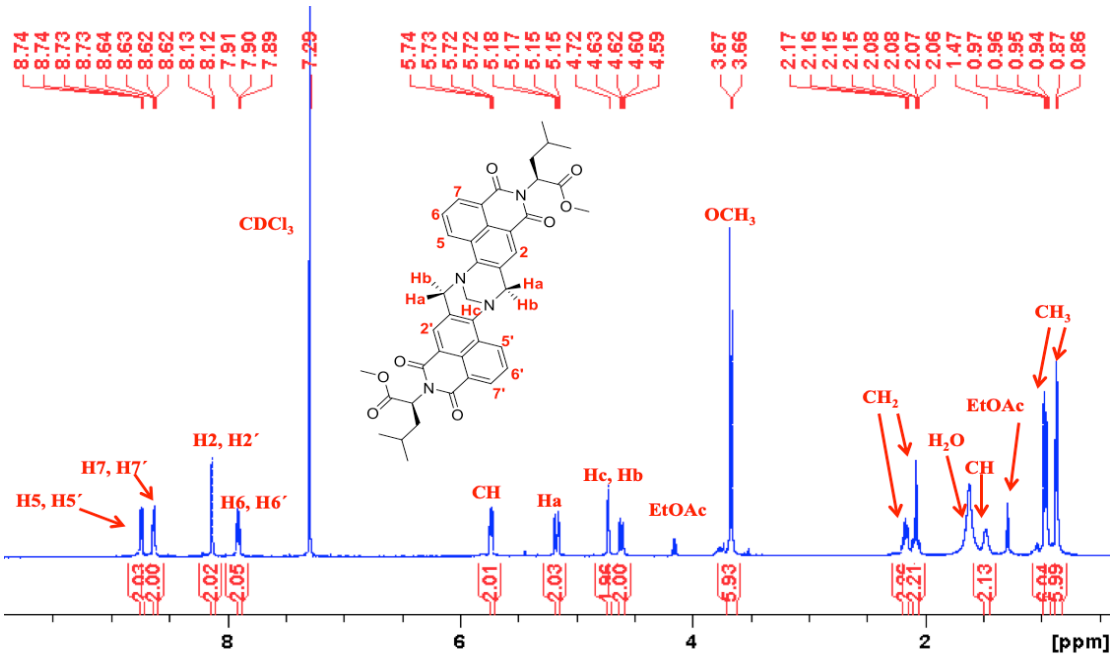

Figure S8. The ^{1}H NMR spectrum ($CDCl_3$, 600 MHz) of **32**

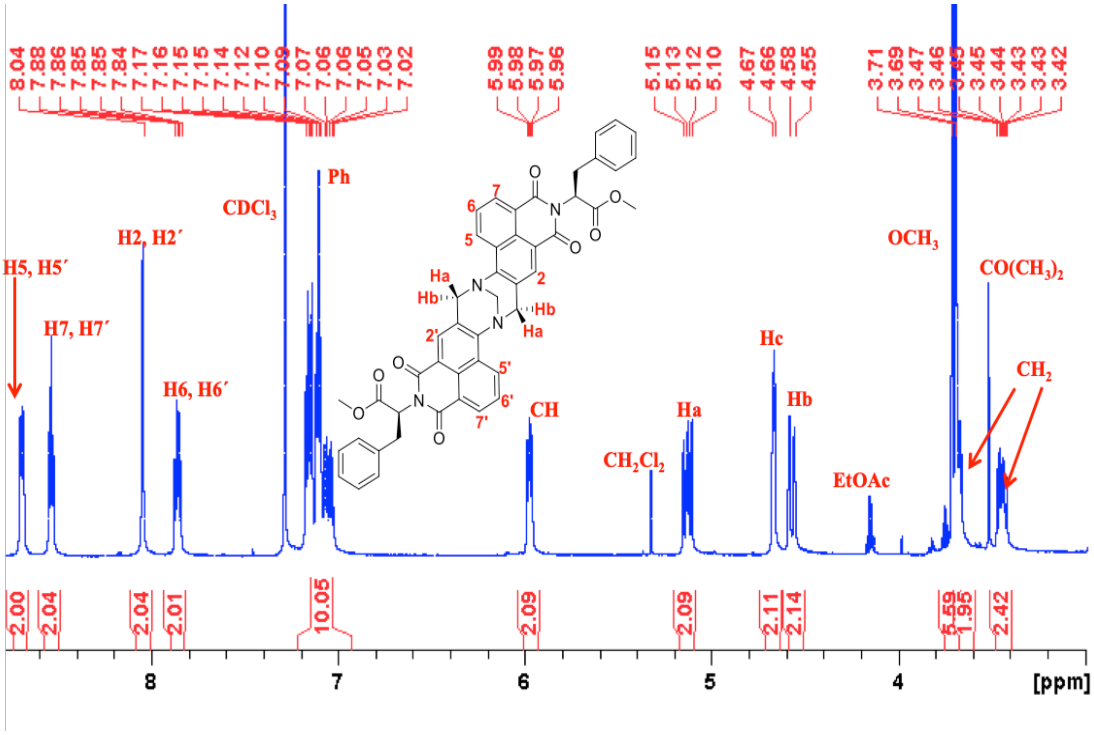

Figure S9. The ^{1}H NMR spectrum ($CDCl_3$, 600 MHz) of **33**

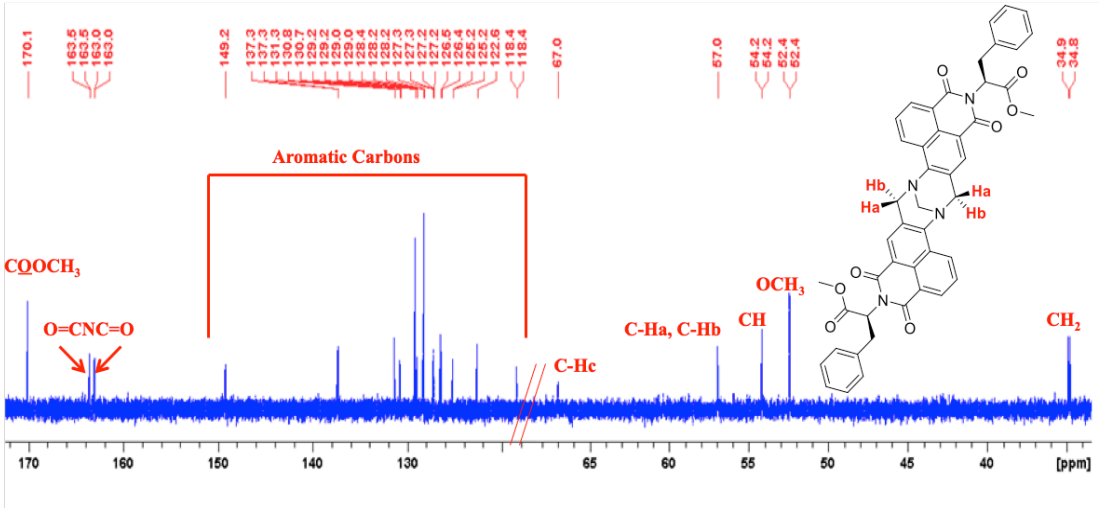

Figure S10. The ^{13}C NMR ($CDCl_3$, 150 MHz) spectrum of **33**

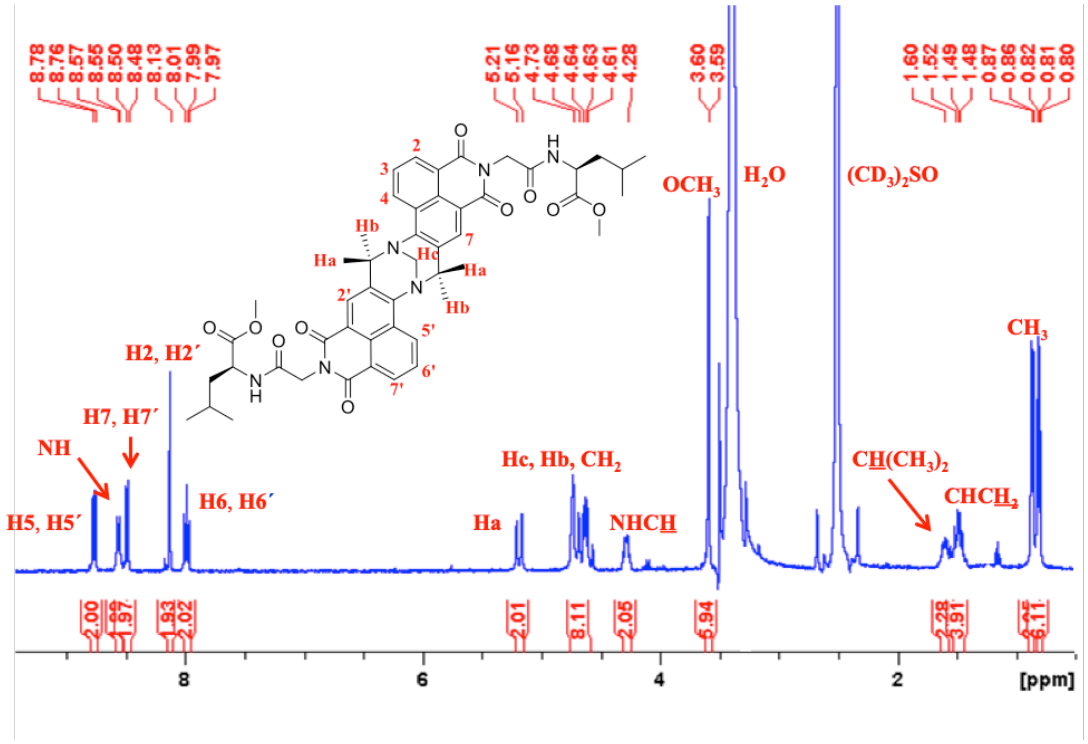

Figure S11. The ^{1}H NMR spectrum ($(CD_3)_2SO$, 400 MHz) of **34**

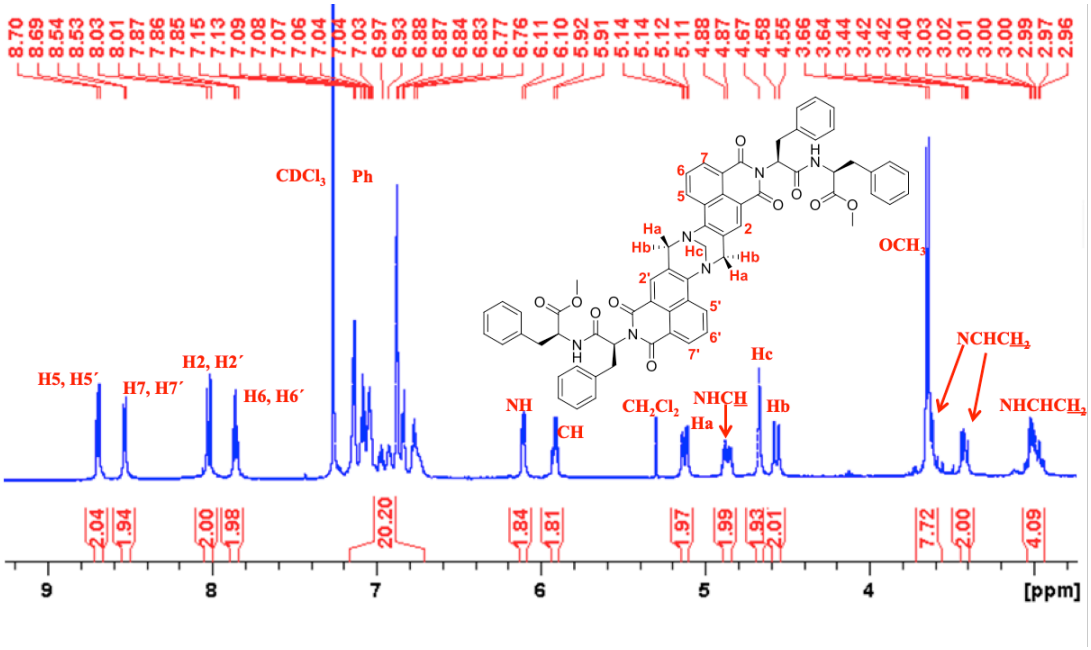

Figure S12. The ^{1}H NMR spectrum ($CDCl_3$, 400 MHz) of **37**

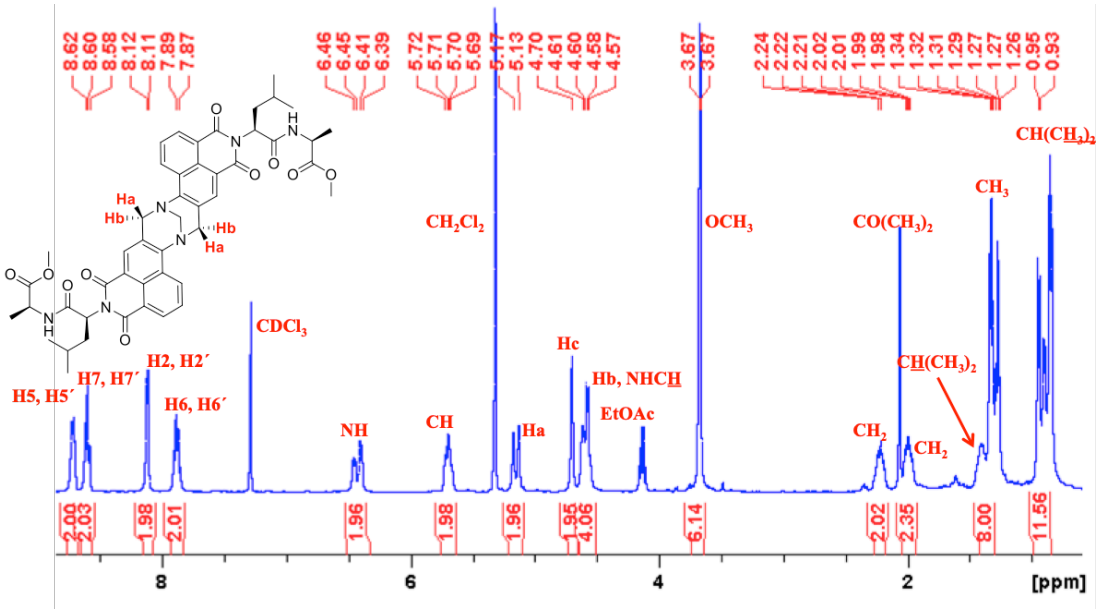

Figure S13. The ^{1}H NMR ($CDCl_3$, 600 MHz) spectrum of **38.** Enlarged version of that shown in Figure 3

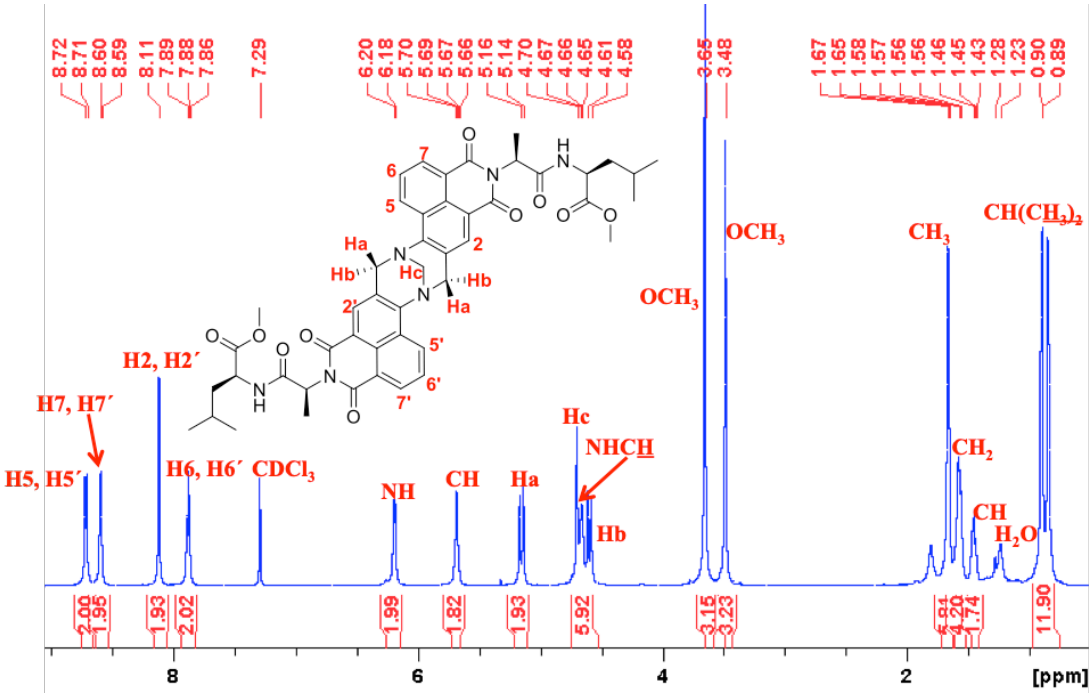

Figure S14. The ^{1}H NMR spectrum ($CDCl_3$, 600 MHz) of **39**

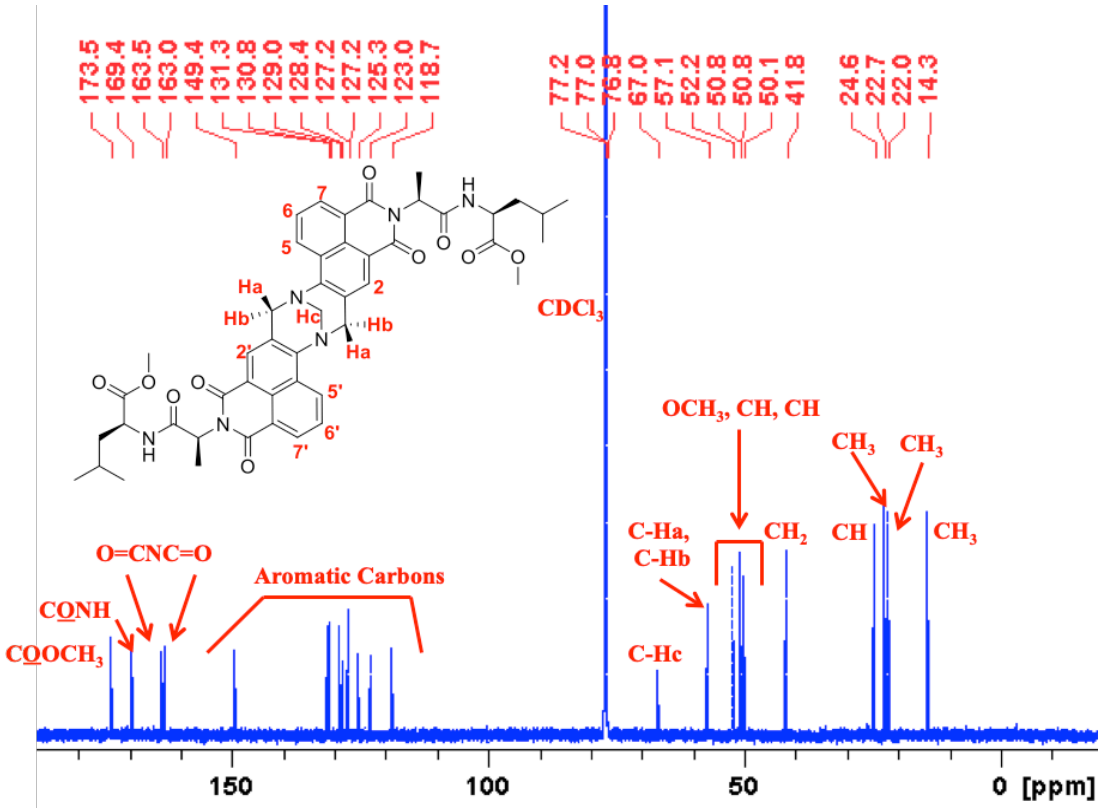

Figure S15. The ^{13}C NMR ($CDCl_3$, 150 MHz) spectrum of **39**

2. Select CD-spectra analysis of some 4-Nitro-, 4-Amino-Naps precursors and TBNaps products developed in this work

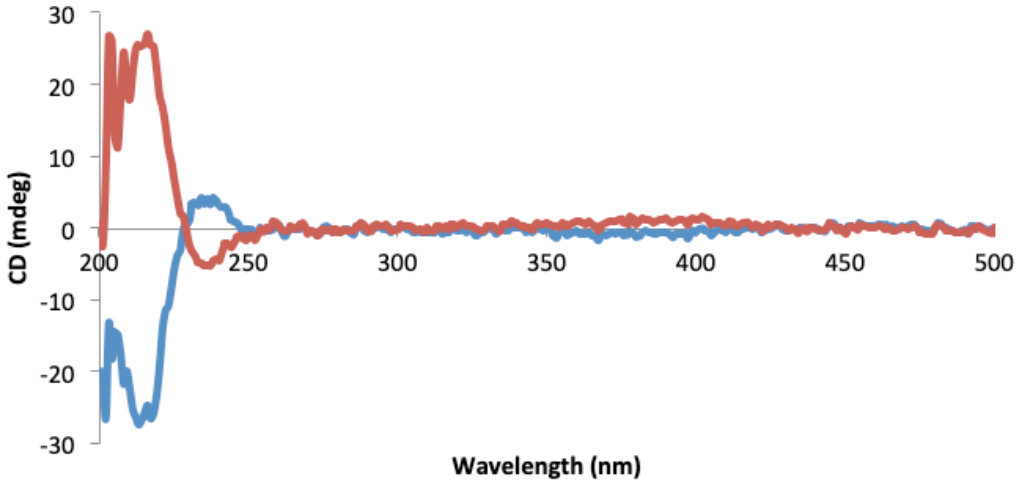

Figure S16. Enlarged version of Figure 4, showing the CD spectra of **28** (blue) and **29** (red) in CH_3OH

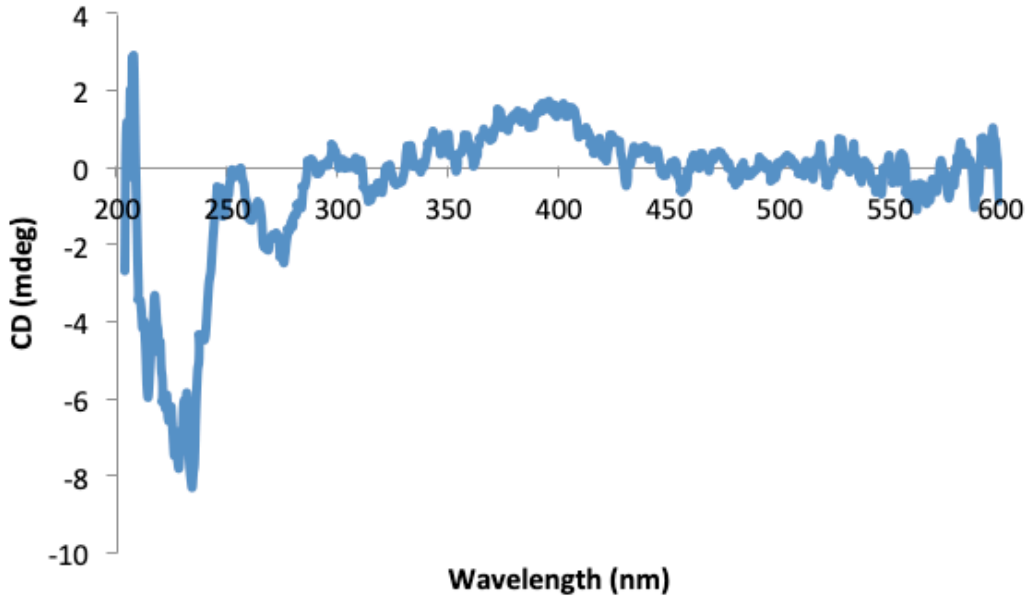

Figure S17. The CD spectrum of **32** in CH_3OH

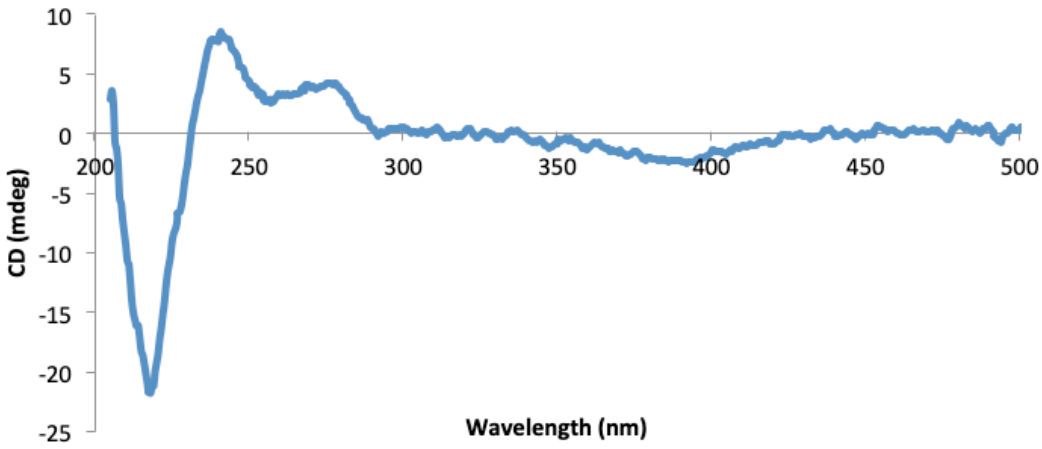

Figure S18. The CD spectrum of **37** in CH_3OH

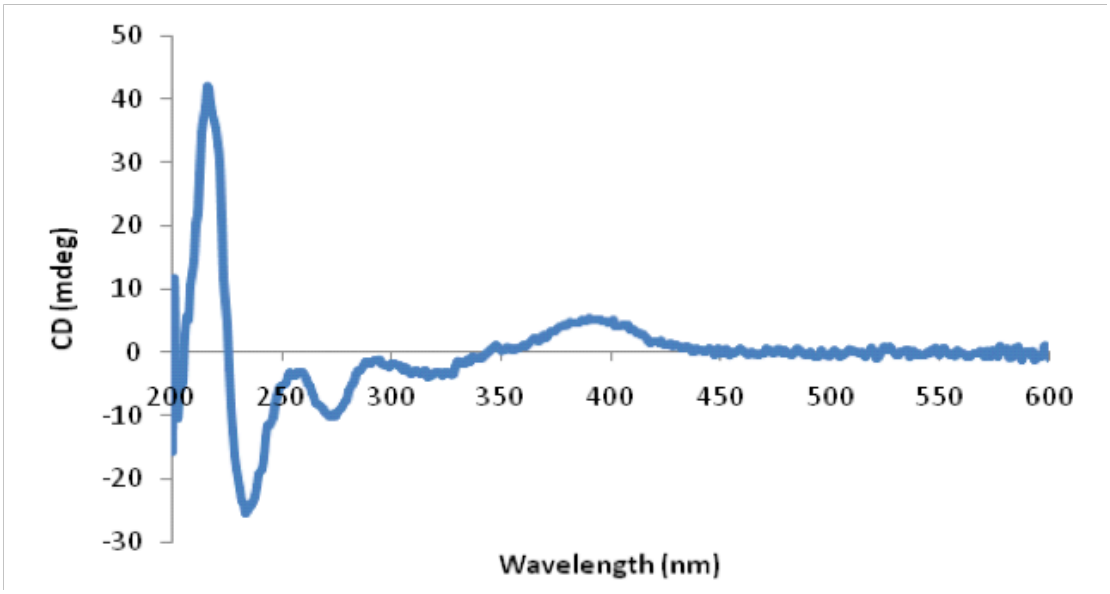

Figure S19. The CD spectrum of **38** in CH_3OH

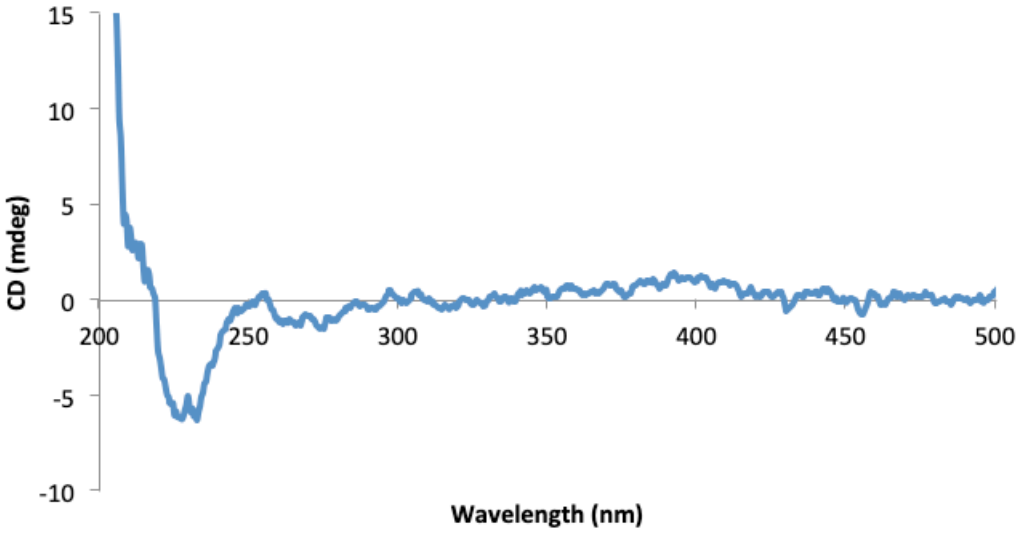

Figure S20. The CD spectrum of **39** in CH_3OH

Table S1: Absorption and emission spectral data for **33** and **17** recorded in a range of solvents

Solvent	**33** λ_{maxUV} **(nm)**	**33** λ_{maxFLU} **(nm)**	**17** λ_{maxUV} **(nm)**	**17** λ_{maxFLU} **(nm)**
Toluene	385	470	407	479
DCM	387	496	410	487
THF	385	499	423	502
Chloroform	385	481	409	479
Ethyl Acetate	384	504	419	498
Acetone	387	528	423	510
MeOH	386	530	435	530
EtOH	387	534	437	524
MeCN	388	542	421	513
DMF	393	542	437	522
DMSO	396	543	443	528
Water	389	516	437	546