

Supporting Information

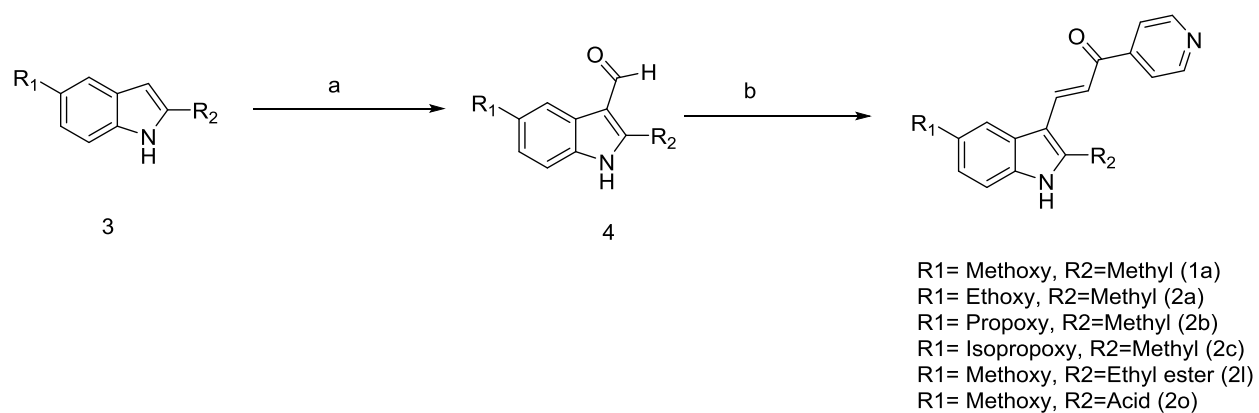
**Indolyl-Pyridinyl-Propenone-Induced Methuosis
through the Inhibition of PIKFYVE**

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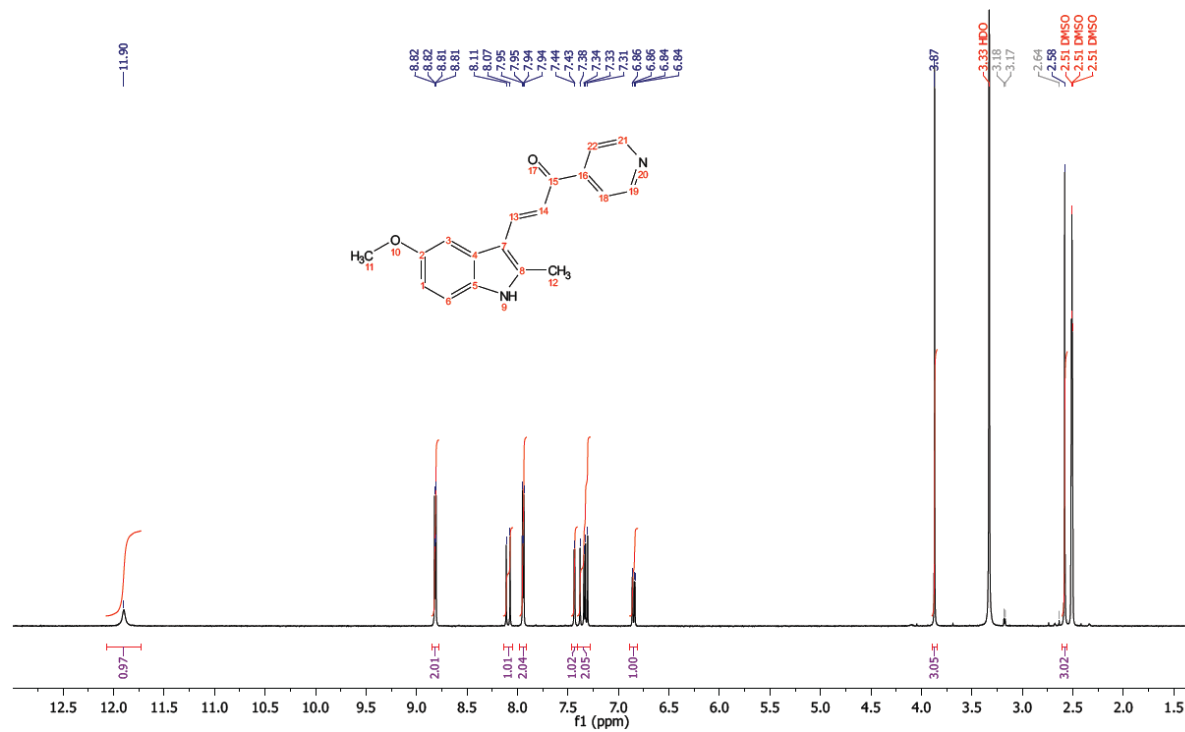
Figure S1. Synthetic Protocols



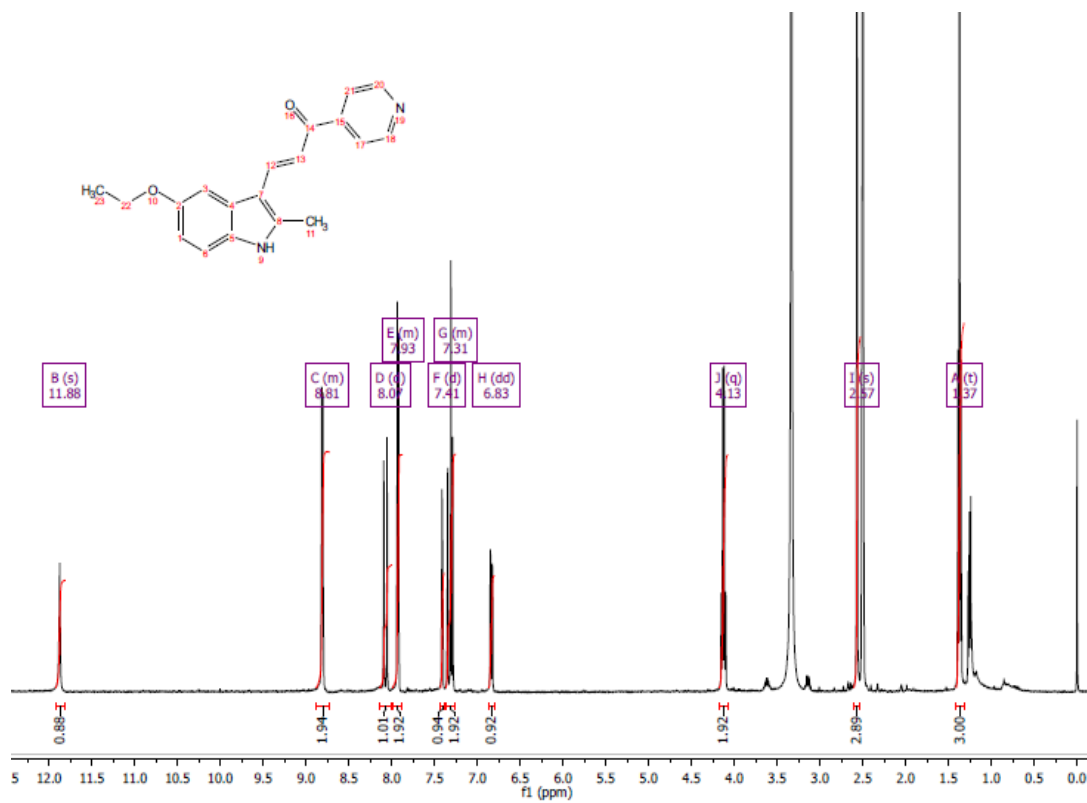
Reagents and conditions: (a) POCl₃, DMF; (b) 4-acetylpyridine; pyrrolidine (1a), piperidine (2a, 2b, 2c, 2l), reflux

Figure S2. ^1H NMR spectra

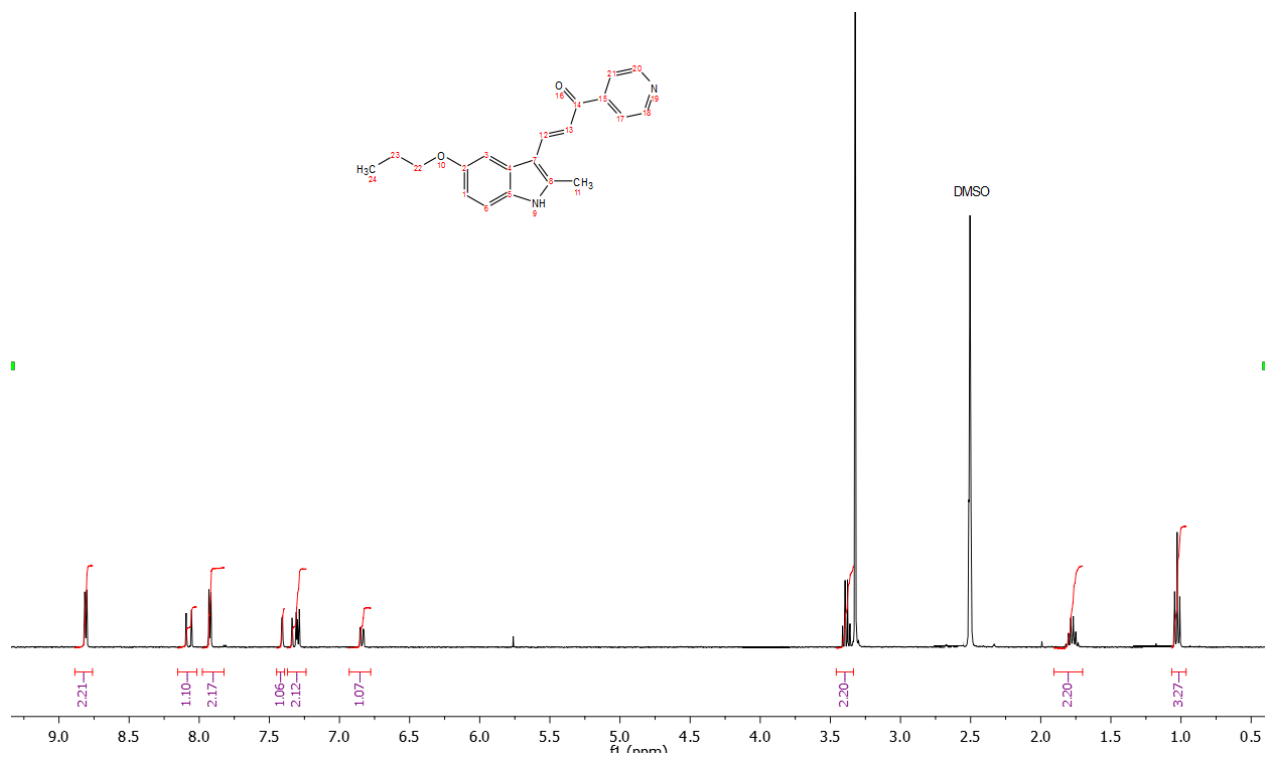
^1H NMR (400 MHz, DMSO-d₆) of **1a**



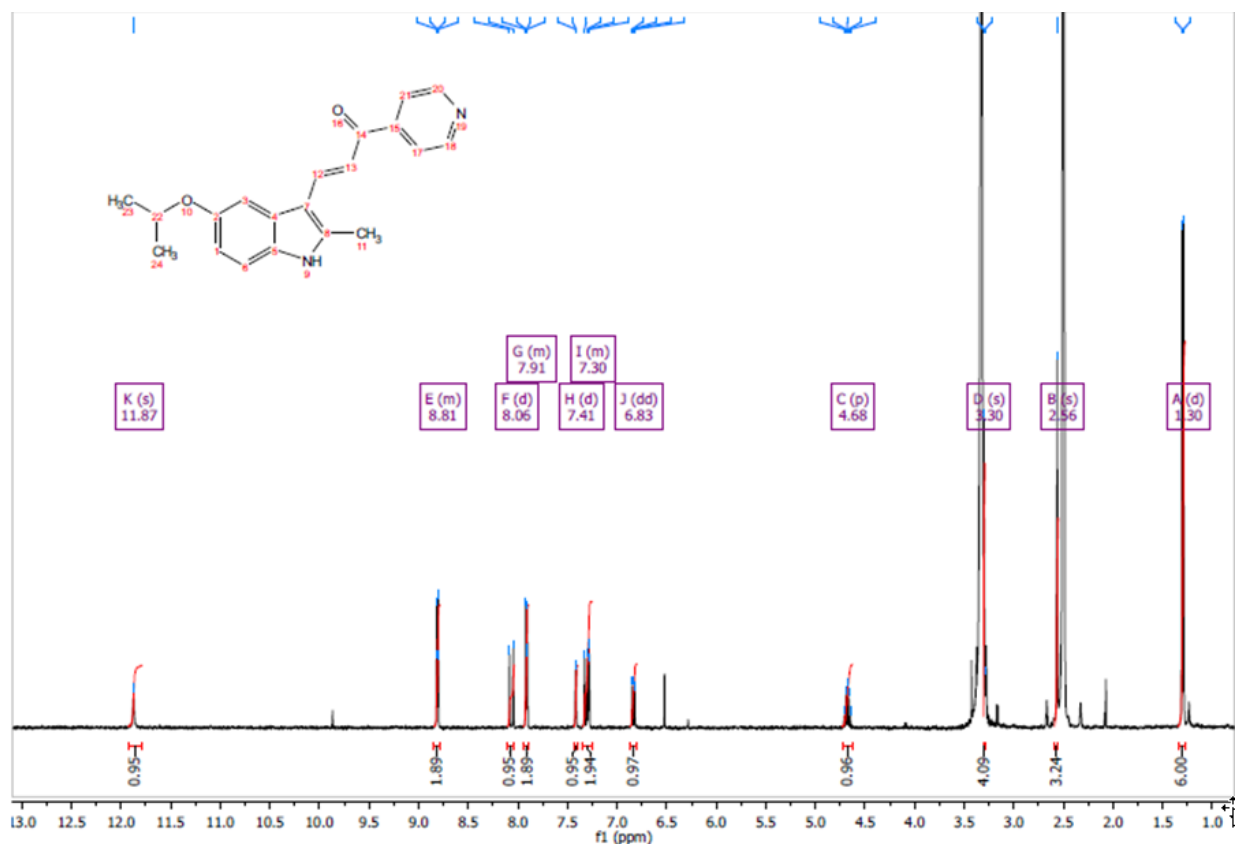
¹H NMR (400 MHz, DMSO-d6) of 2a



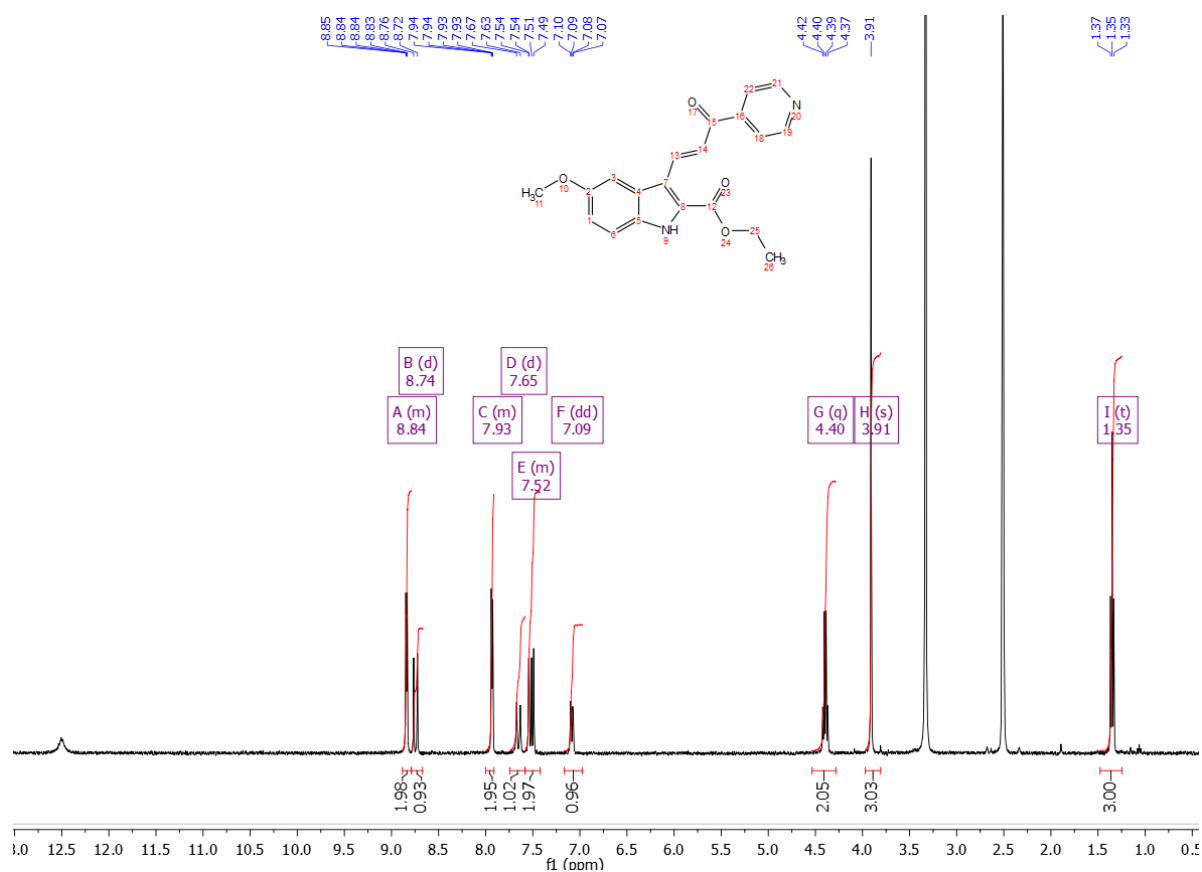
^1H NMR (400 MHz, DMSO-d₆) of **2b**



^1H NMR (400 MHz, DMSO d₆) of **2c**



¹H NMR (400 MHz, DMSO-d₆) of **2l**



¹H NMR (400 MHz, DMSO-d₆) of **2o**

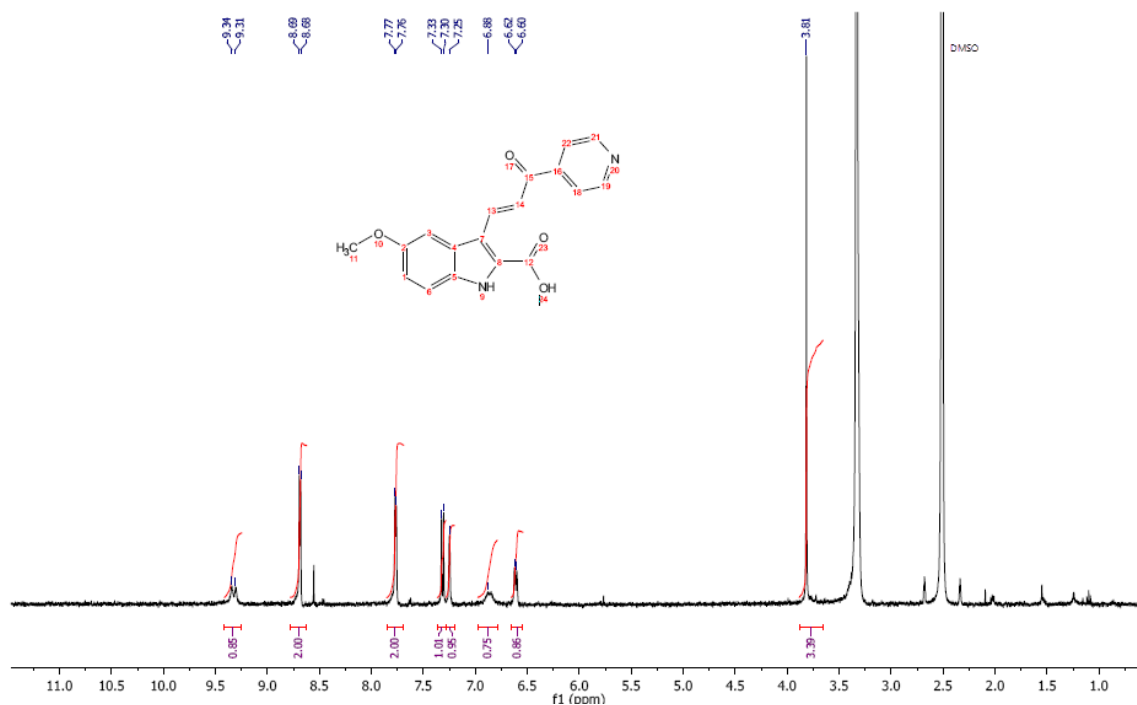
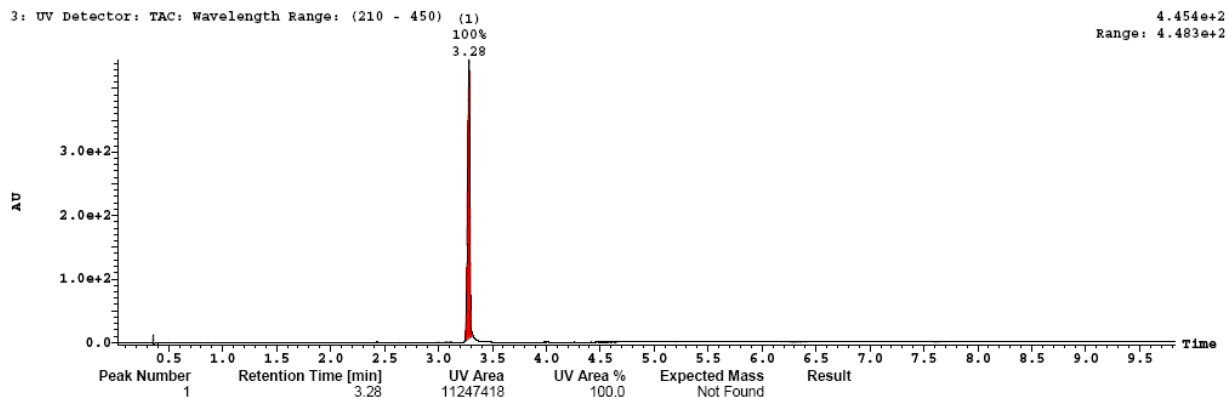
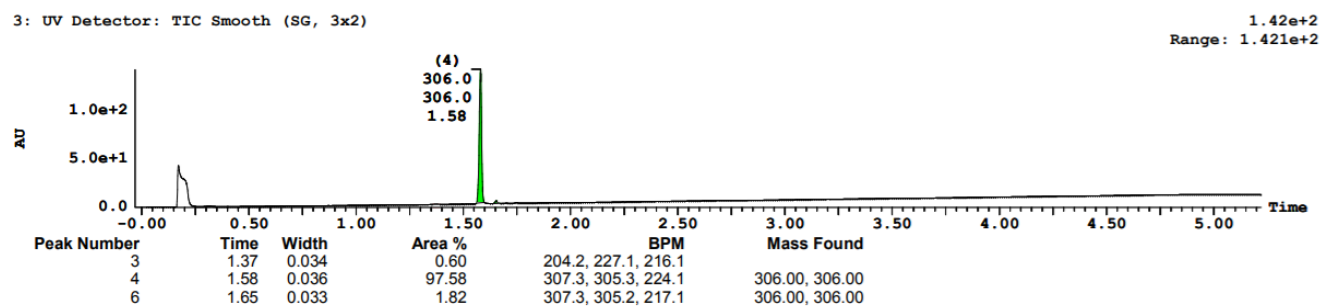


Figure S3. HPLC spectra

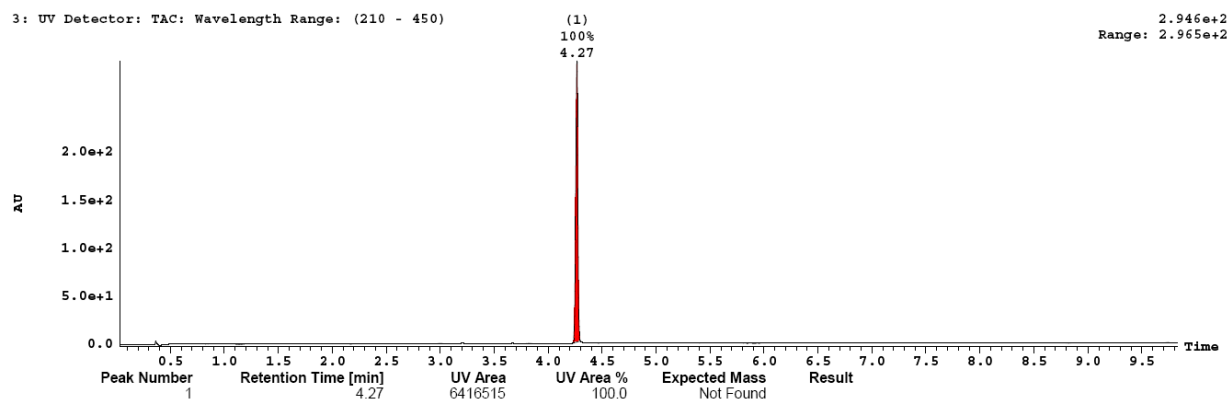
HPLC of 1a



HPLC of 2a



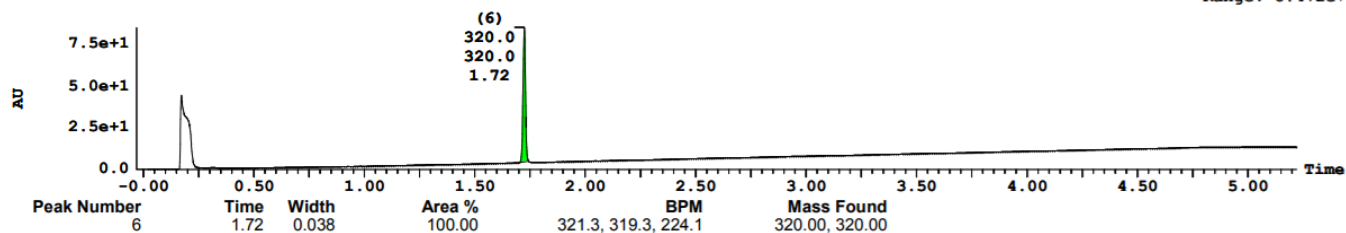
HPLC of 2b



HPLC of 2c

3: UV Detector: TIC Smooth (SG, 3x2)

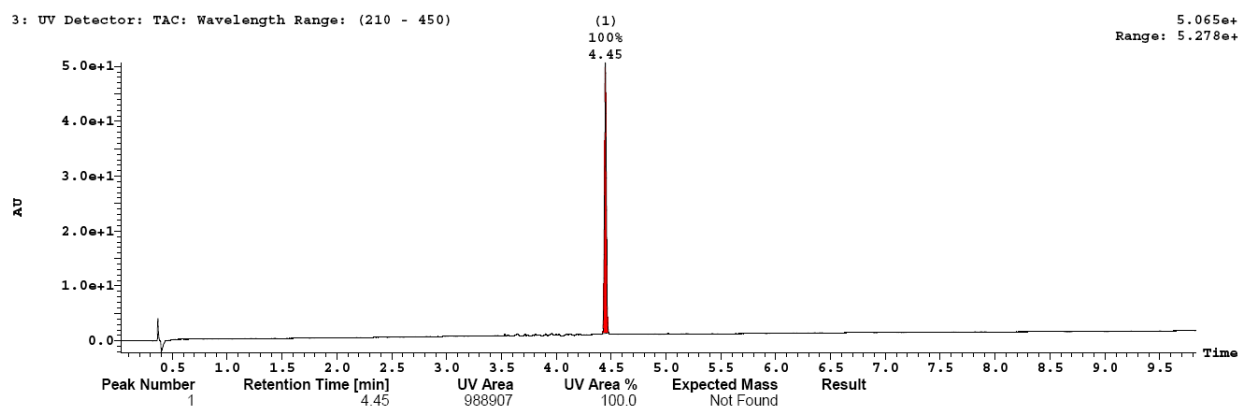
8.462e+1
Range: 8.472e+1



HPLC of 2l

3: UV Detector: TAC: Wavelength Range: (210 - 450)

5.065e+1
Range: 5.278e+1



HPLC of 2o

3: UV Detector: TAC: Wavelength Range: (210 - 450)

2.657e+2
Range: 2.673e+2

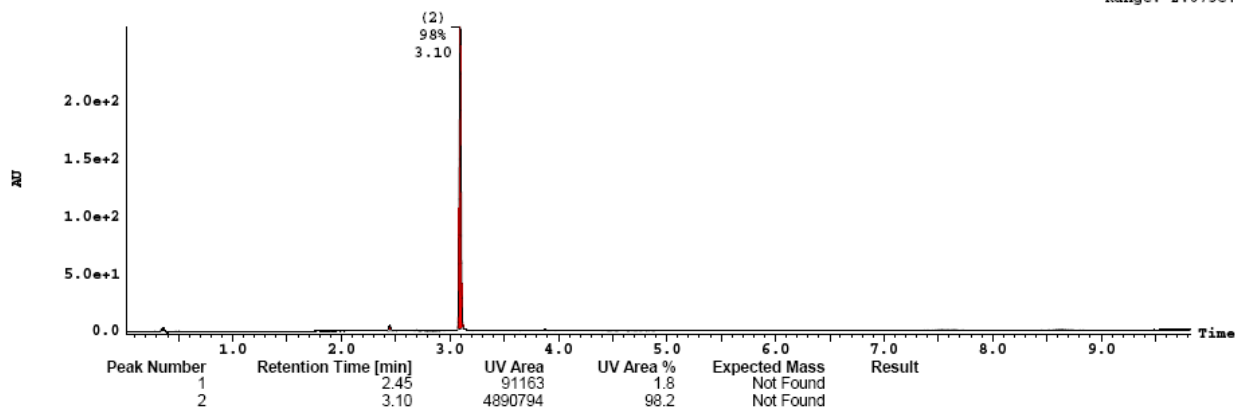
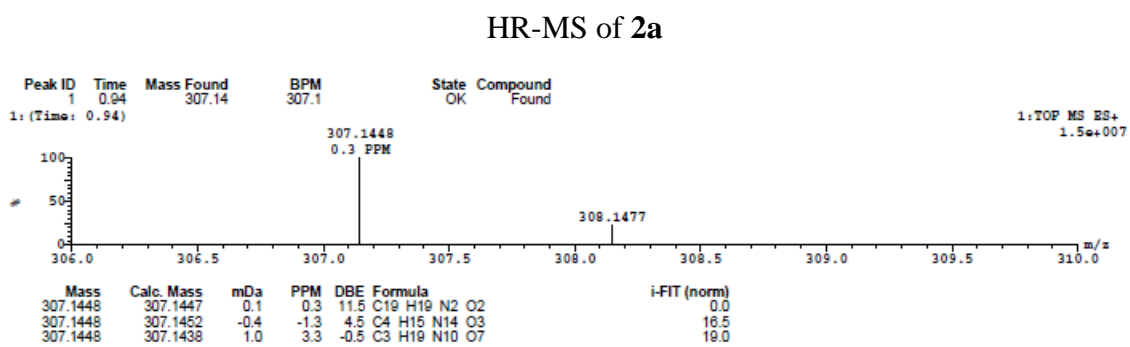
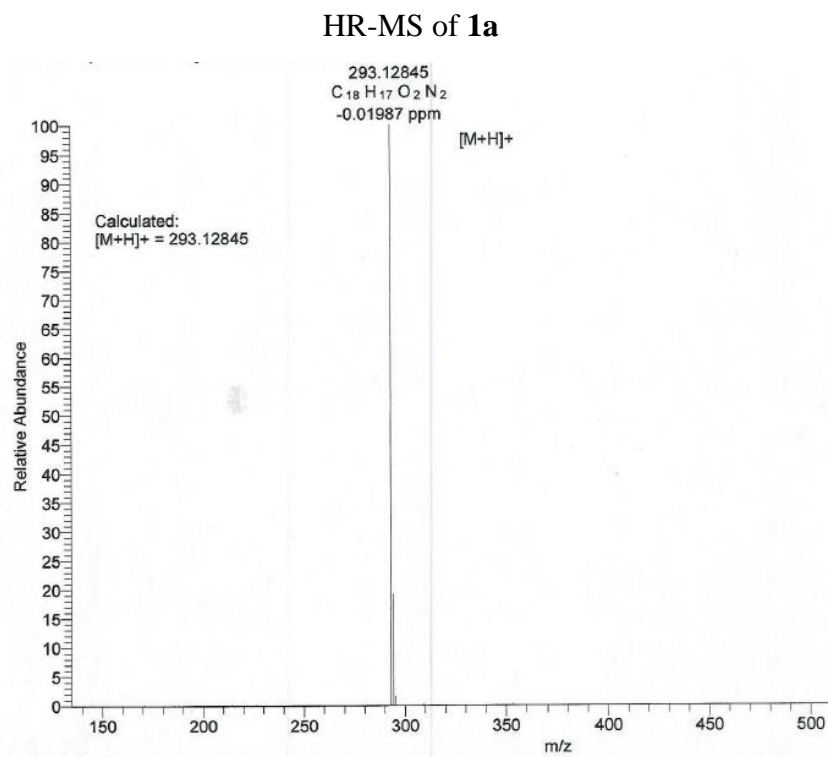
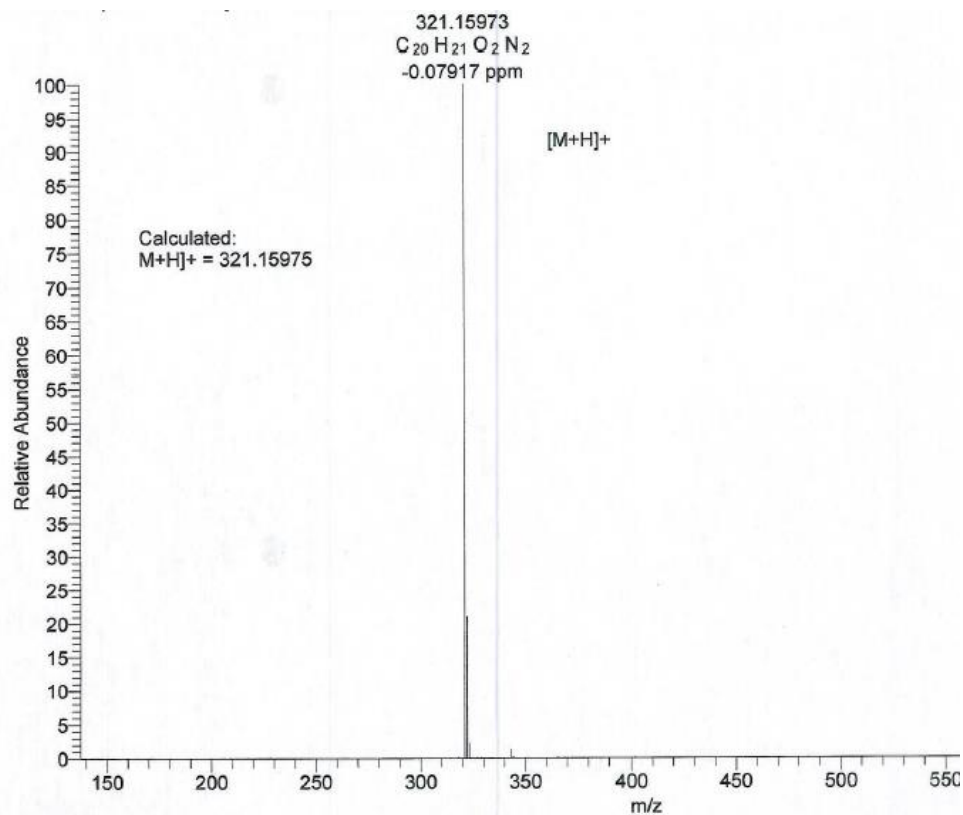


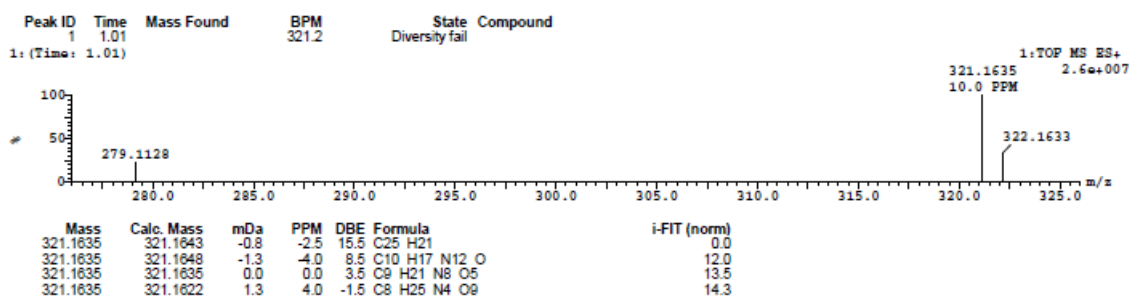
Figure S4. HR-MS spectra



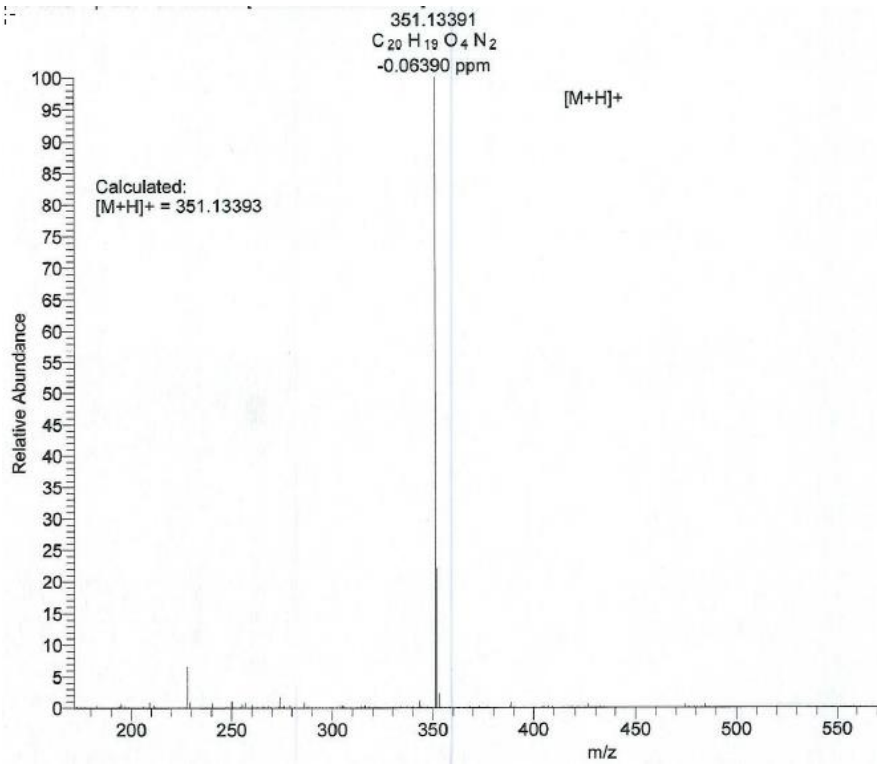
HR-MS of 2b



HRMS of 2c



HR-MS of 2l



HR-MS of 2o

