

^1H , $^{13}\text{C}\{^1\text{H}\}$ NMR and Mass spectra of compounds **4**, **6**, **8** and **11**

^1H , $^{13}\text{C}\{^1\text{H}\}$ NMR and Mass spectra of the synthesised compounds (**4**, **6**, **8** and **11**)

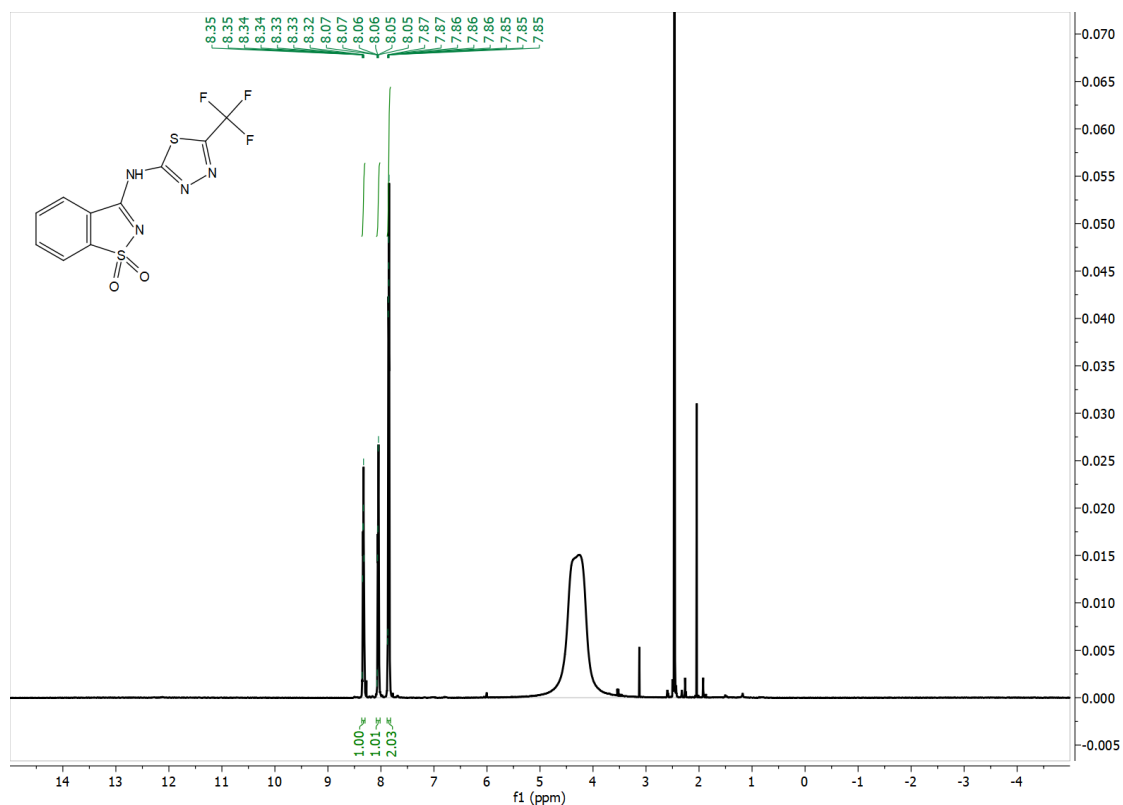


Figure S1. ^1H NMR spectrum (500 MHz) of compound **4** in $\text{DMSO-}d_6$.

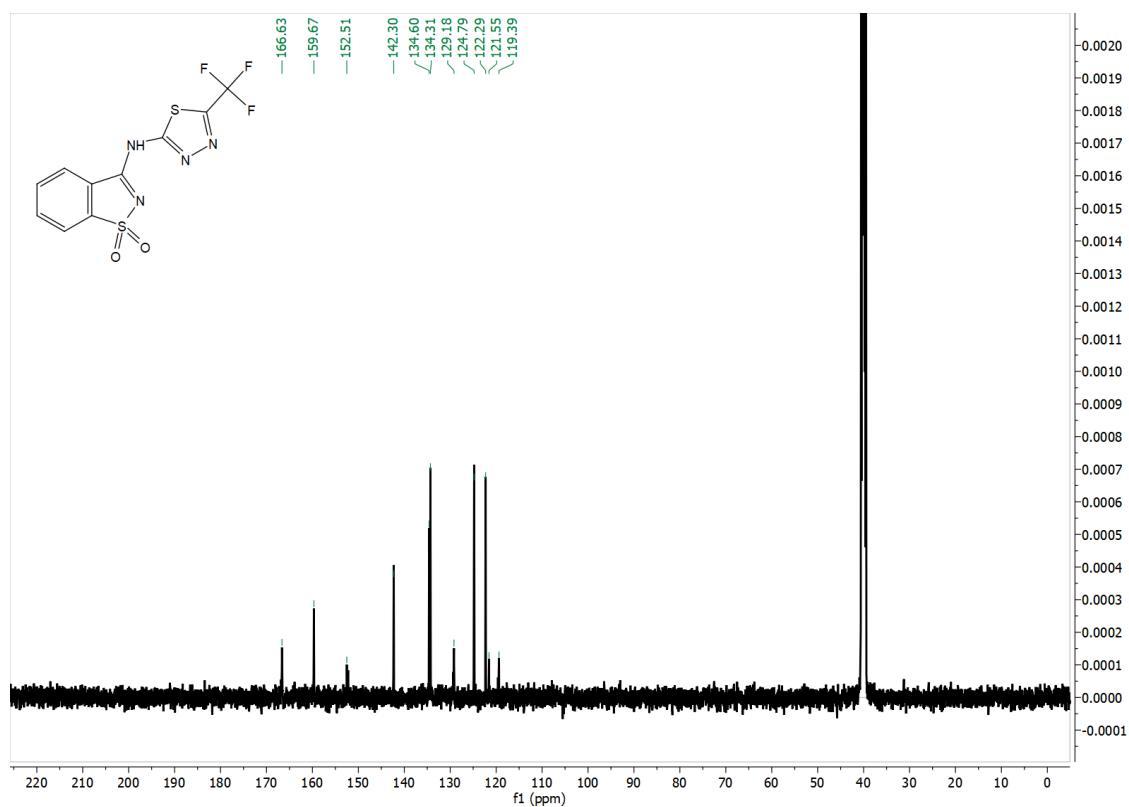


Figure S2. $^{13}\text{C}\{^1\text{H}\}$ NMR spectrum (126 MHz) of compound **4** in $\text{DMSO-}d_6$.

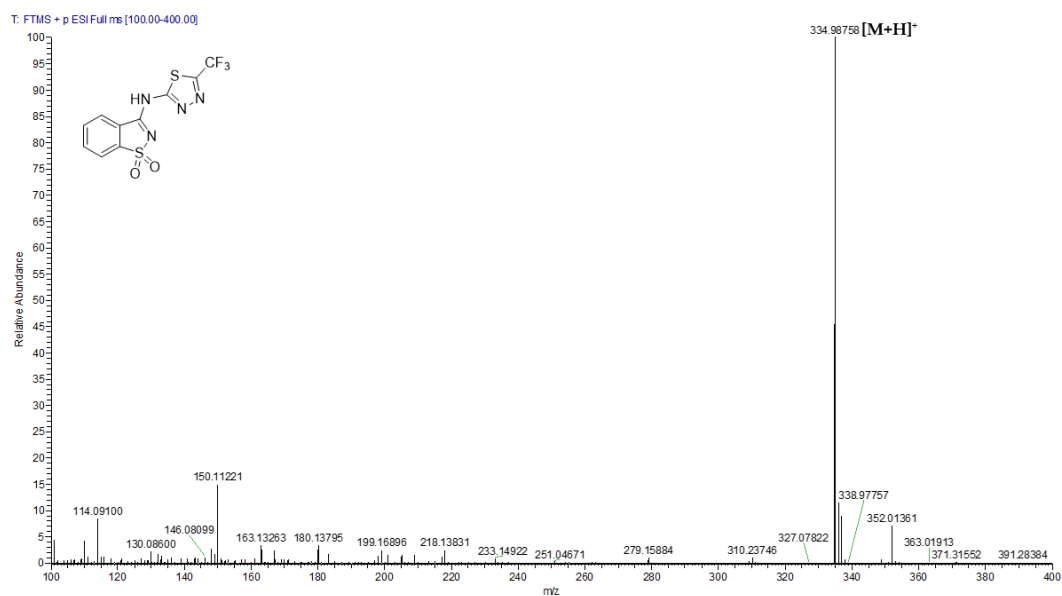


Figure S3. Electrospray ionization mass spectrum in positive-ion mode (HRMS-ESI⁺) of 3-((5-(trifluoromethyl)-1,3,4-thiadiazol-2-yl)amino)benzo[d]isothiazole 1,1-dioxide (**4**).

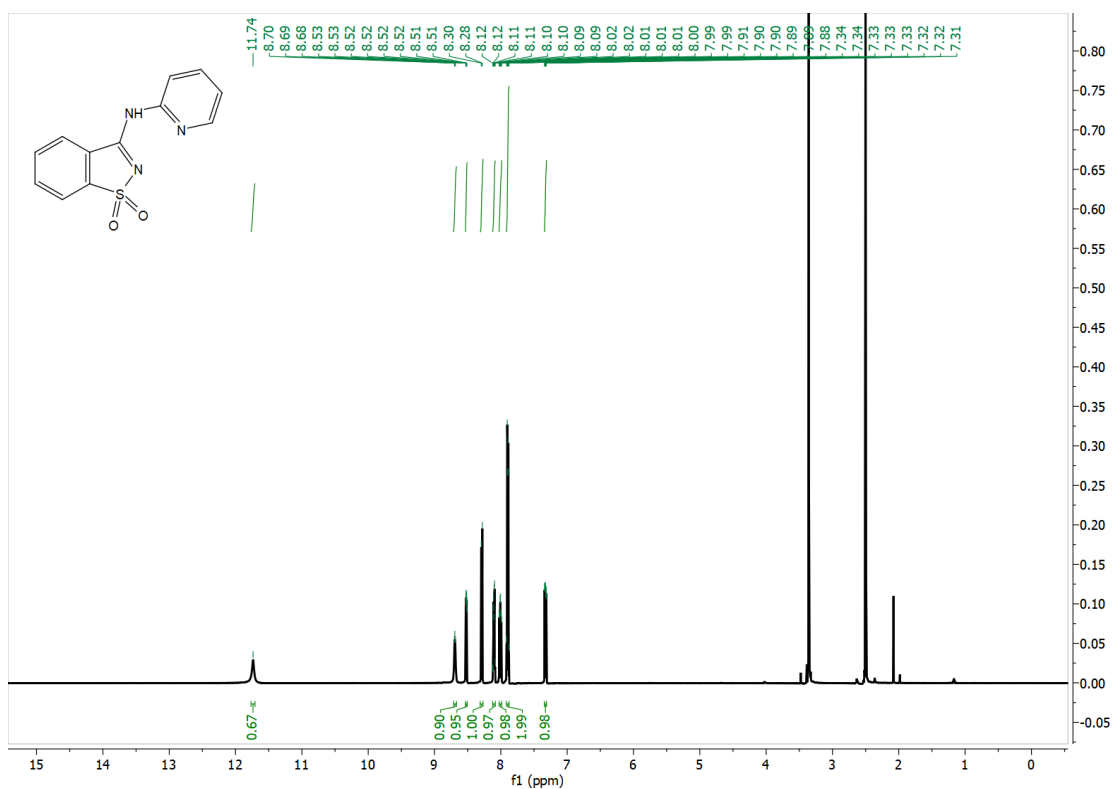


Figure S4. ¹H NMR spectrum (500 MHz) of compound **6** in DMSO-*d*₆.

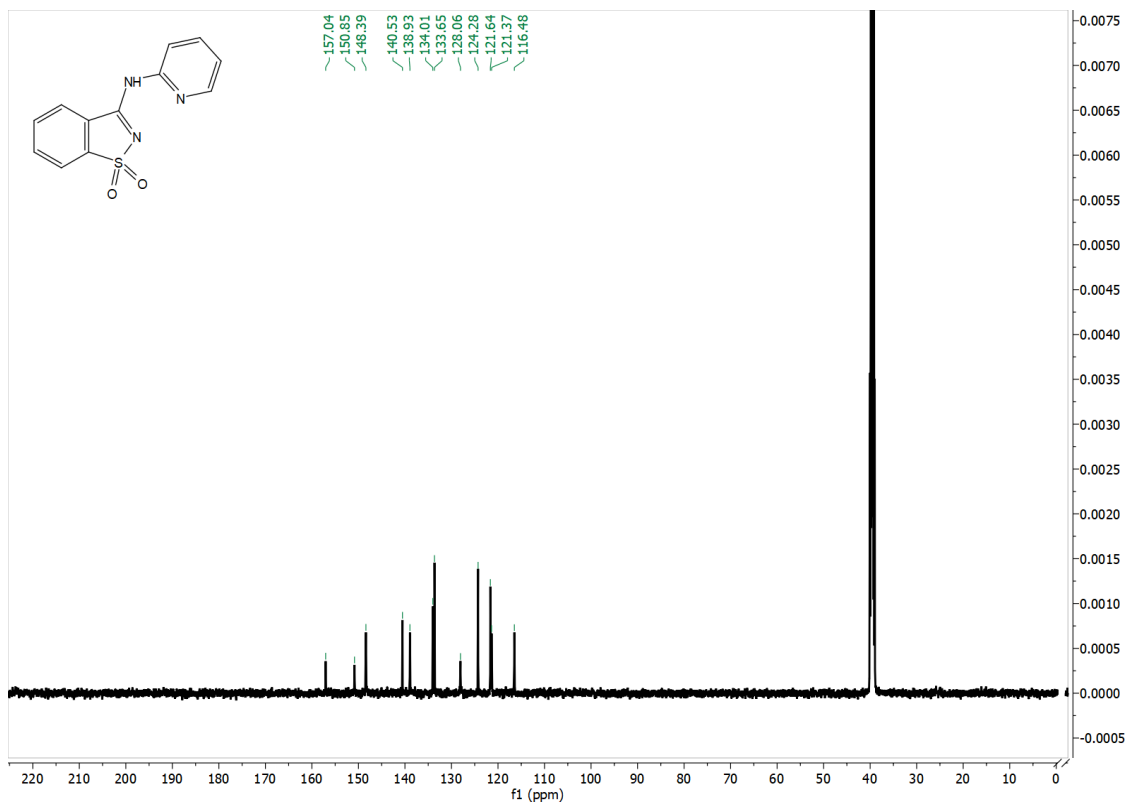


Figure S5. $^{13}\text{C}\{^1\text{H}\}$ NMR spectrum (126 MHz) of compound **6** in $\text{DMSO-}d_6$.

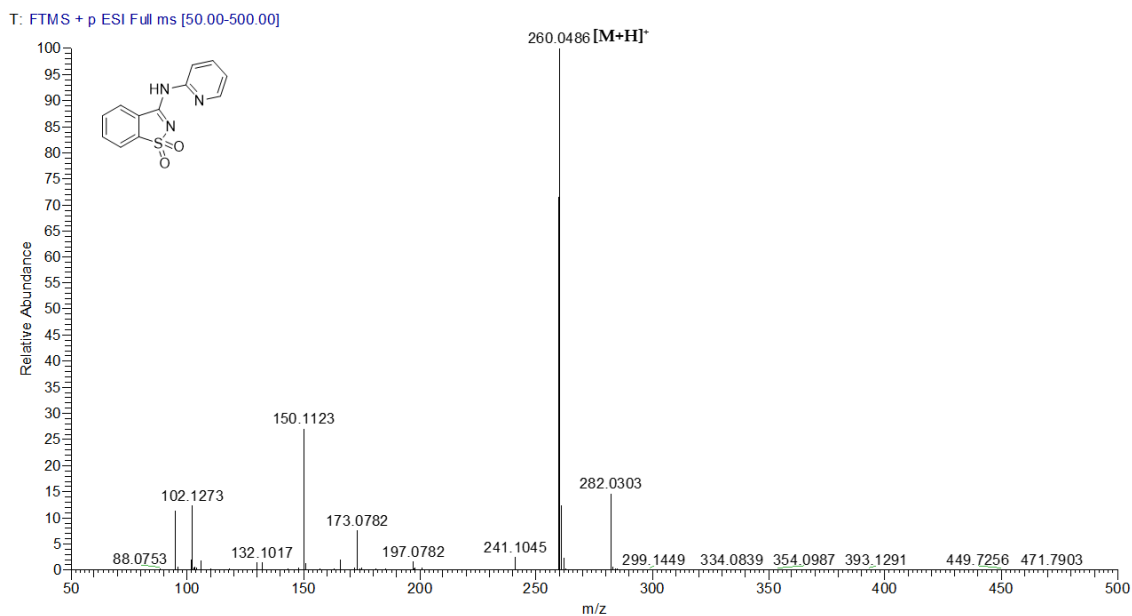


Figure S6. Electrospray ionization mass spectrum in positive-ion mode (HRMS-ESI⁺) of 3-(pyridin-2-ylamino)benzo[d]isothiazole 1,1-dioxide (**6**).

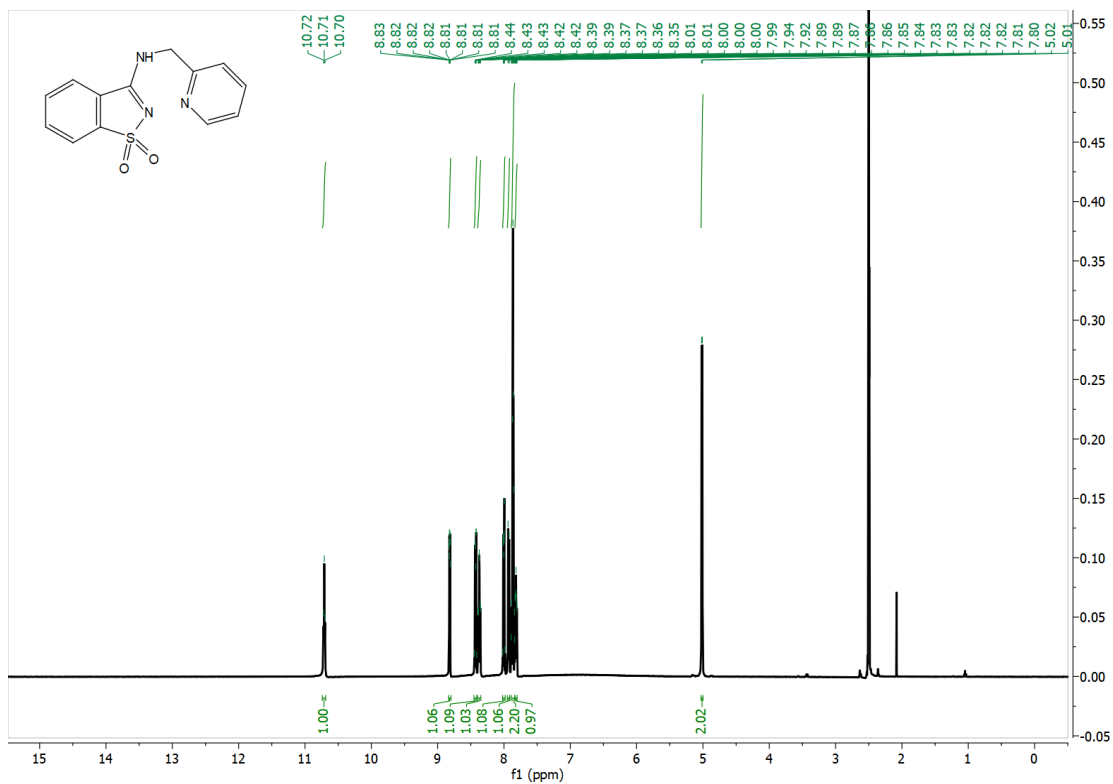


Figure S7. ¹H NMR spectrum (500 MHz) of compound **8** in DMSO-*d*₆.

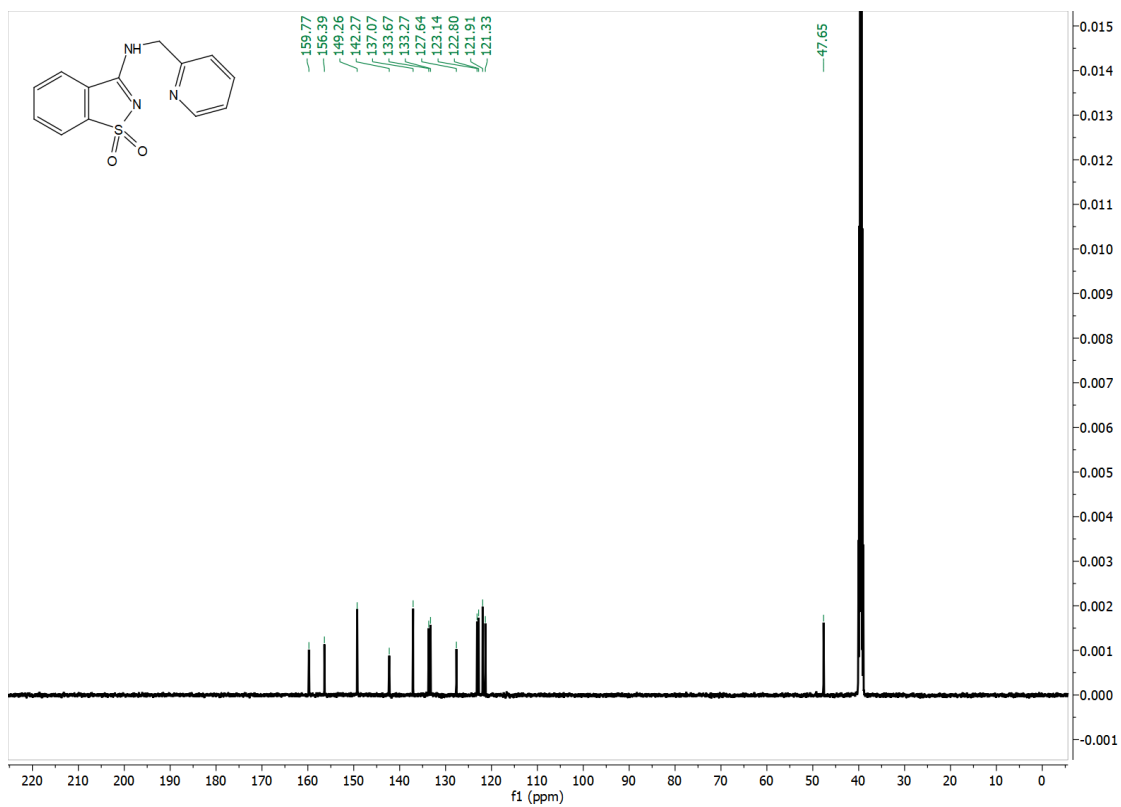


Figure S8. ¹³C{¹H} NMR spectrum (126 MHz) of compound **8** in DMSO-*d*₆.

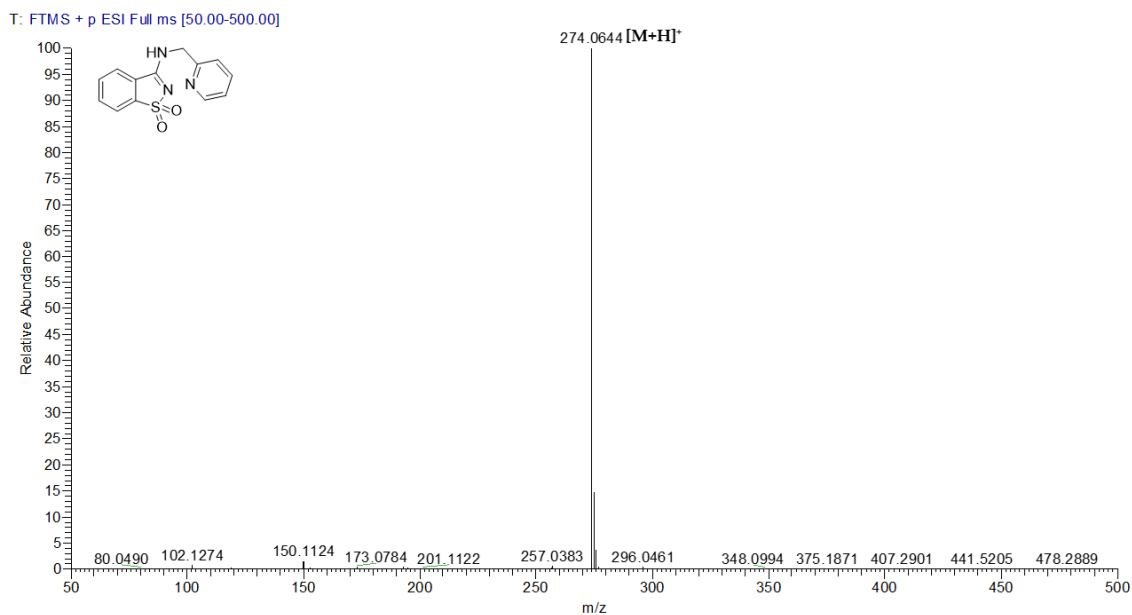


Figure S9. Electrospray ionization mass spectrum in positive-ion mode (HRMS-ESI⁺) of (3-((pyridin-2-ylmethyl)amino)benzo[d]isothiazole 1,1-dioxide (**8**).

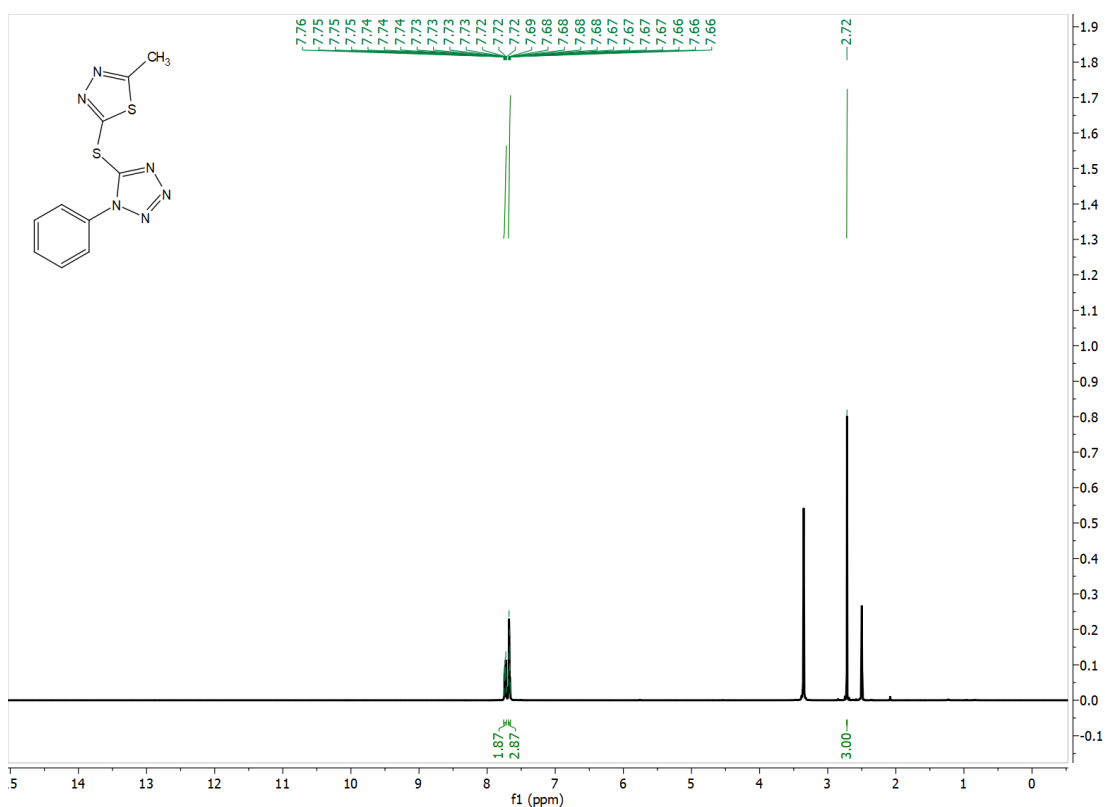


Figure S10. ¹H NMR spectrum (500 MHz) of compound **11** in DMSO-*d*₆.

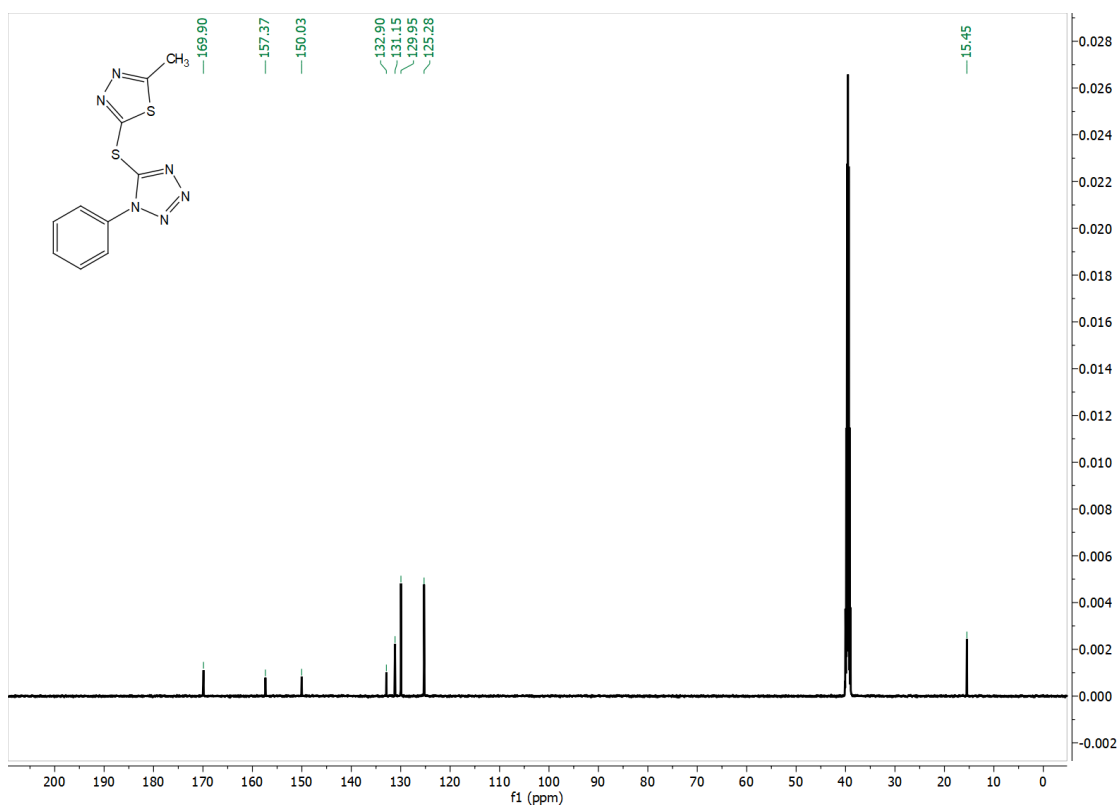


Figure S11. $^{13}\text{C}\{^1\text{H}\}$ NMR spectrum (126 MHz) of compound **11** in $\text{DMSO-}d_6$.

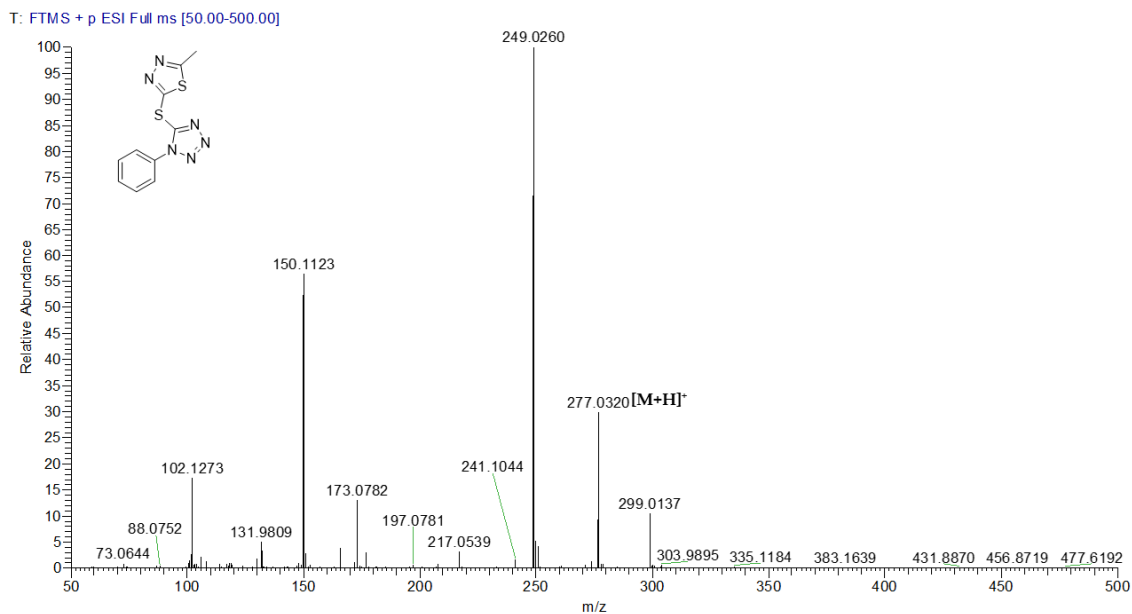


Figure S12. Electrospray ionization mass spectrum in positive-ion mode (HRMS-ESI⁺) of 2-methyl-5-((1-phenyl-1*H*-tetrazol-5-yl)thio)-1,3,4-thiadiazole (**11**).