Supplementary Data

Investigation on Novel E/Z 2-Benzylideneindan-1-one-based Photoswitches with AChE and MAO-B Dual Inhibitory Activity

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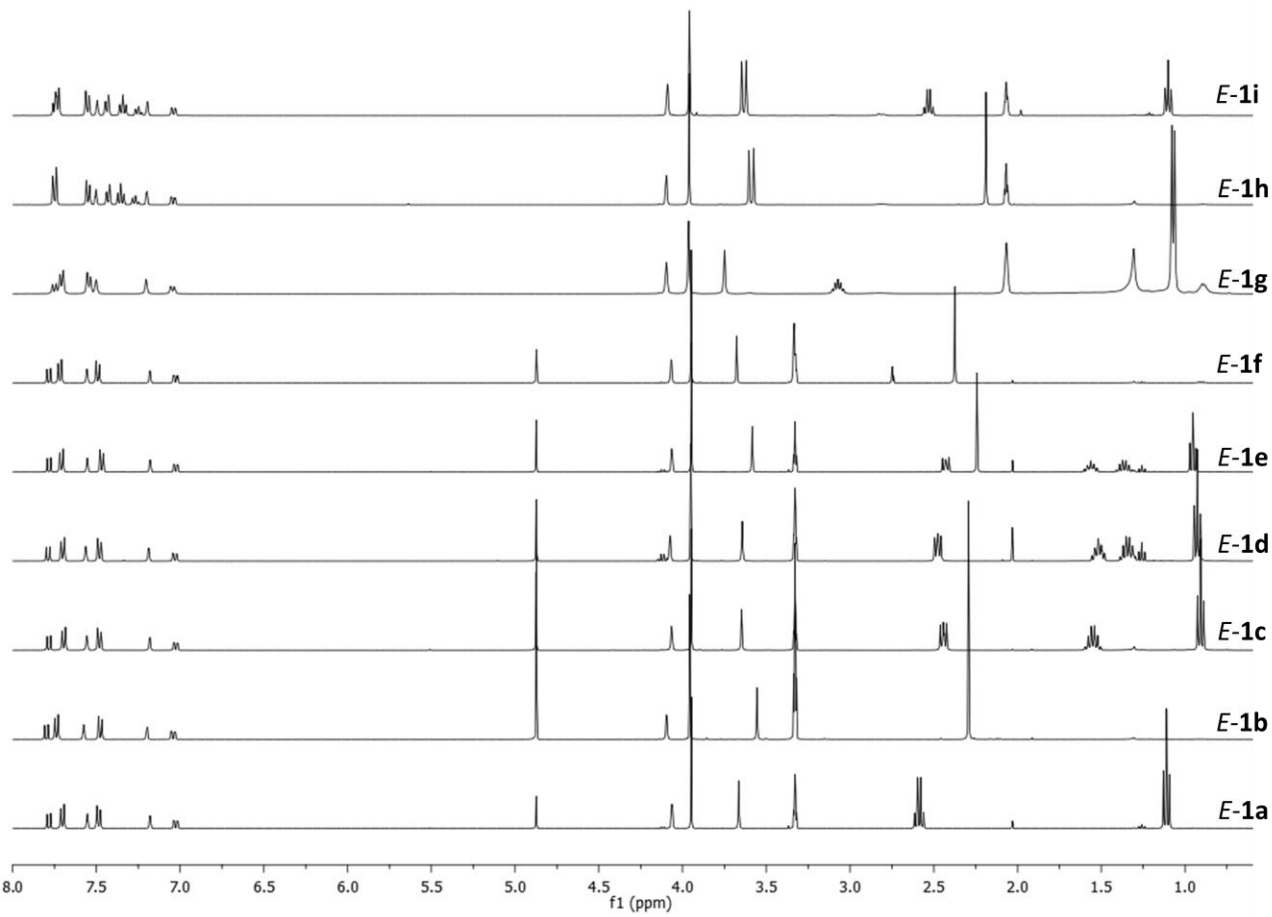

Figure S1. Comparison of ^{1}H NMR spectra (400 MHz) of compounds *E*-**1a-f** in CD_3OD and compounds *E*-**1g-i** in $(CD_3)_2CO$.

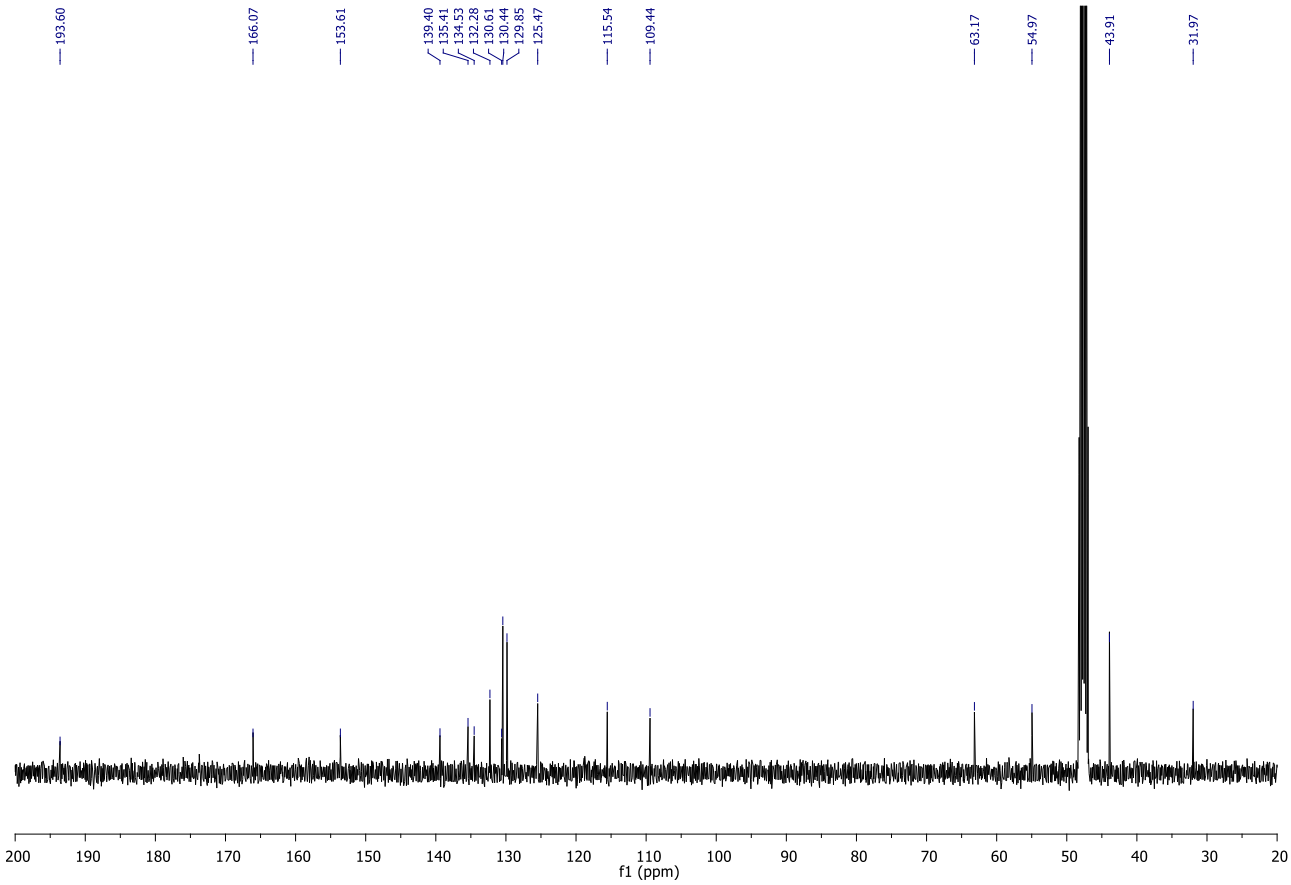

Figure S2. ^{13}C NMR spectrum (100 MHz, CD_3OD) of compound **1b**.

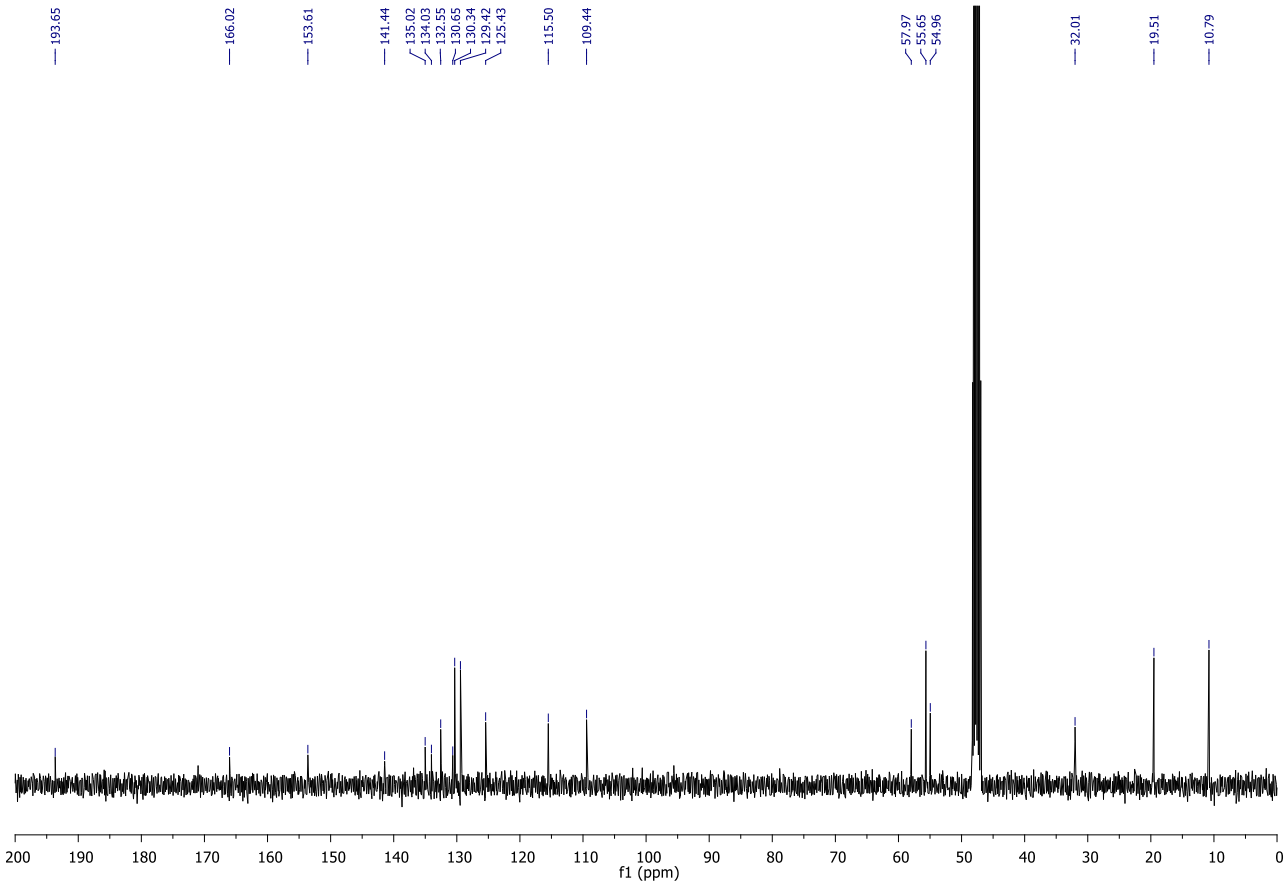

Figure S3. ^{13}C NMR spectrum (100 MHz, CD_3OD) of compound **1c**.

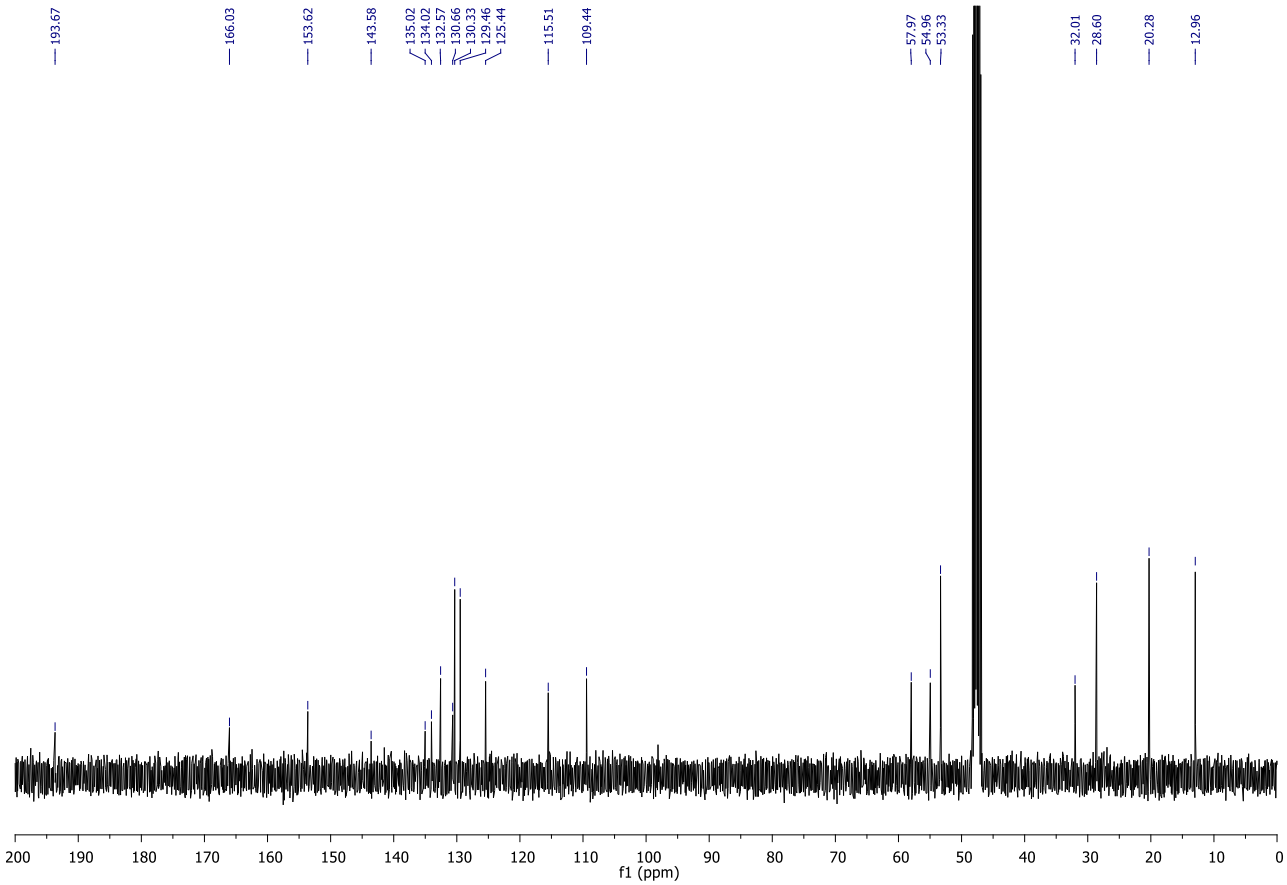

Figure S4. ^{13}C NMR spectrum (100 MHz, CD_3OD) of compound **1d**.

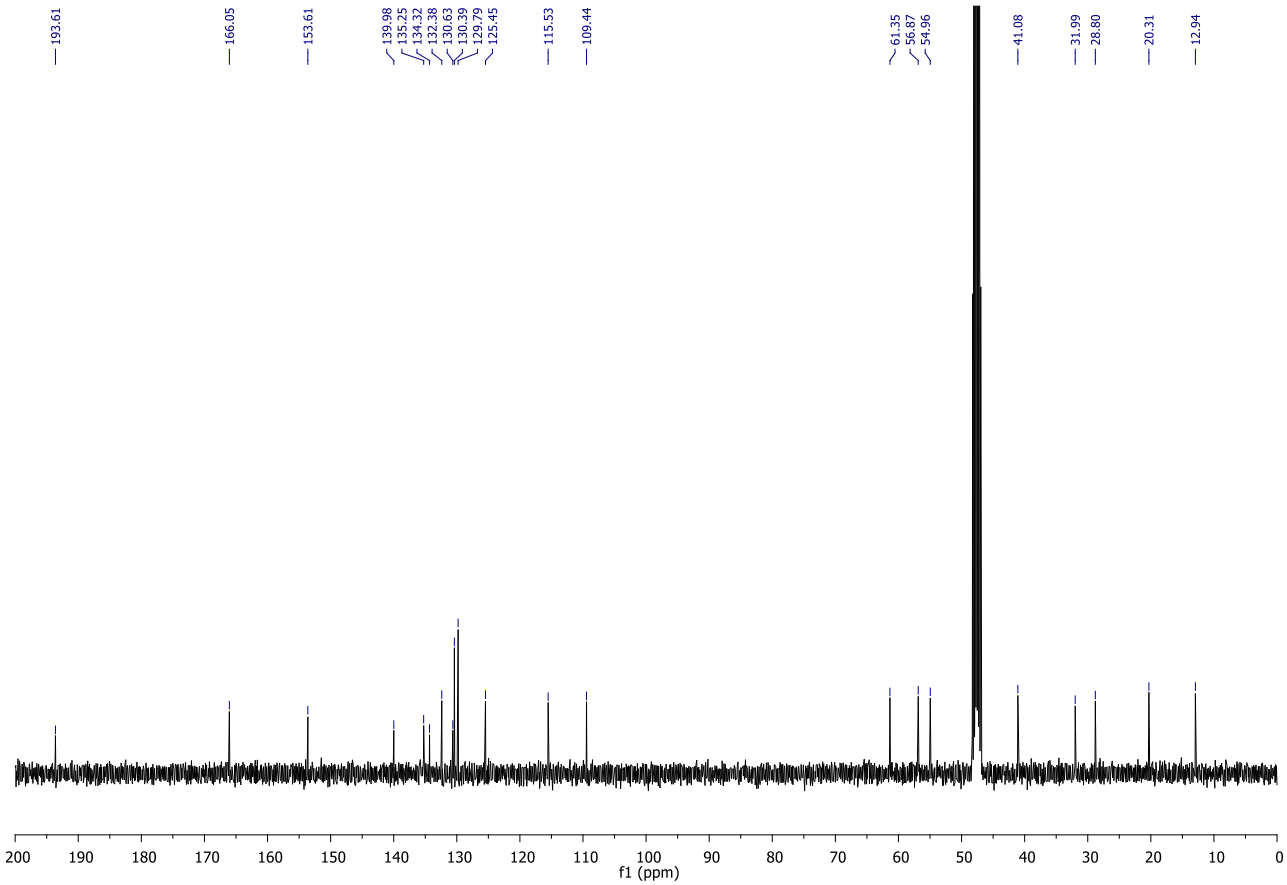

Figure S5. ^{13}C NMR spectrum (100 MHz, CD_3OD) of compound **1e**.

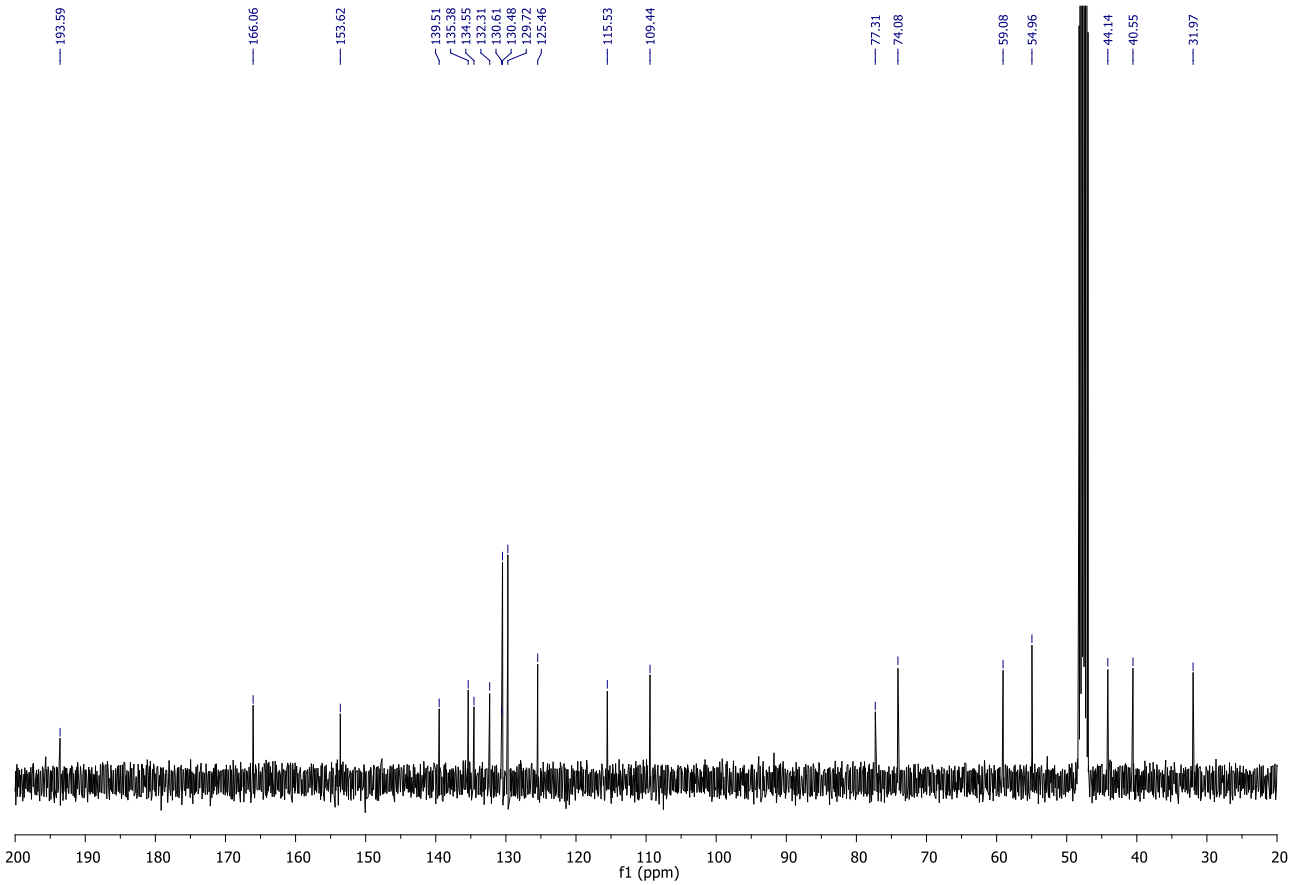

Figure S6. ^{13}C NMR spectrum (100 MHz, CD_3OD) of compound **1f**.

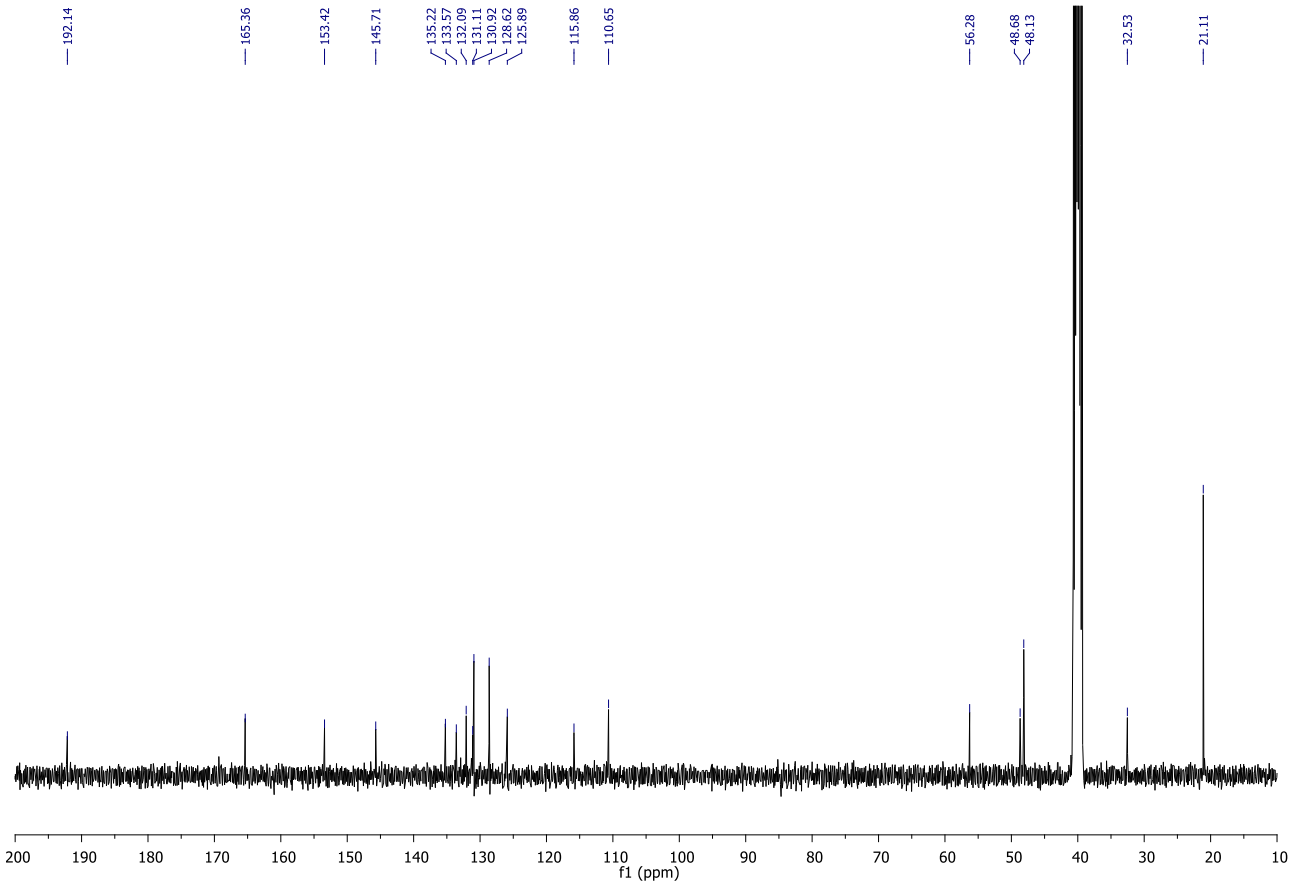

Figure S7. ^{13}C NMR spectrum (100 MHz, $(CD_3)_2SO$) of compound **1g**.

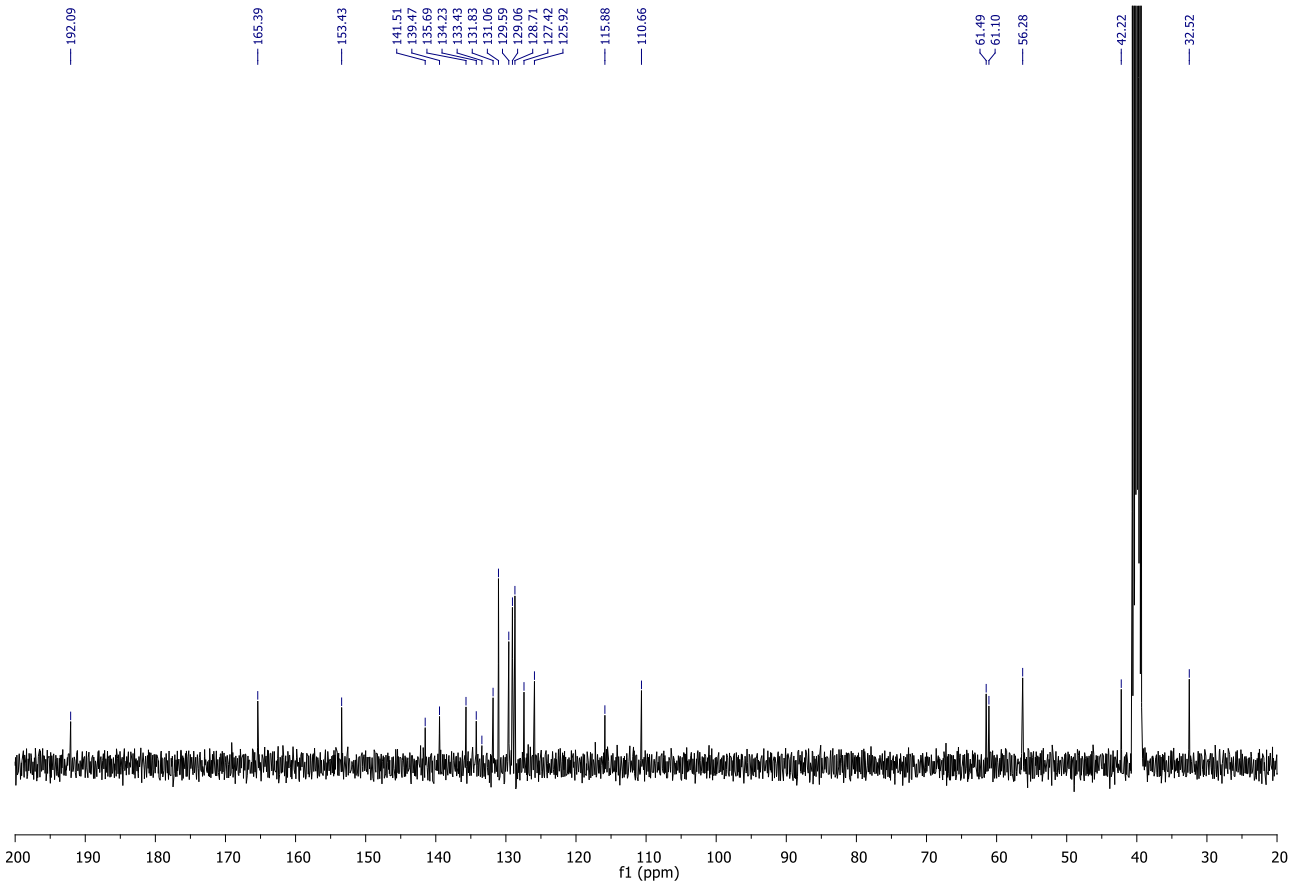

Figure S8. ^{13}C NMR spectrum (100 MHz, $(CD_3)_2SO$) of compound **1h**.

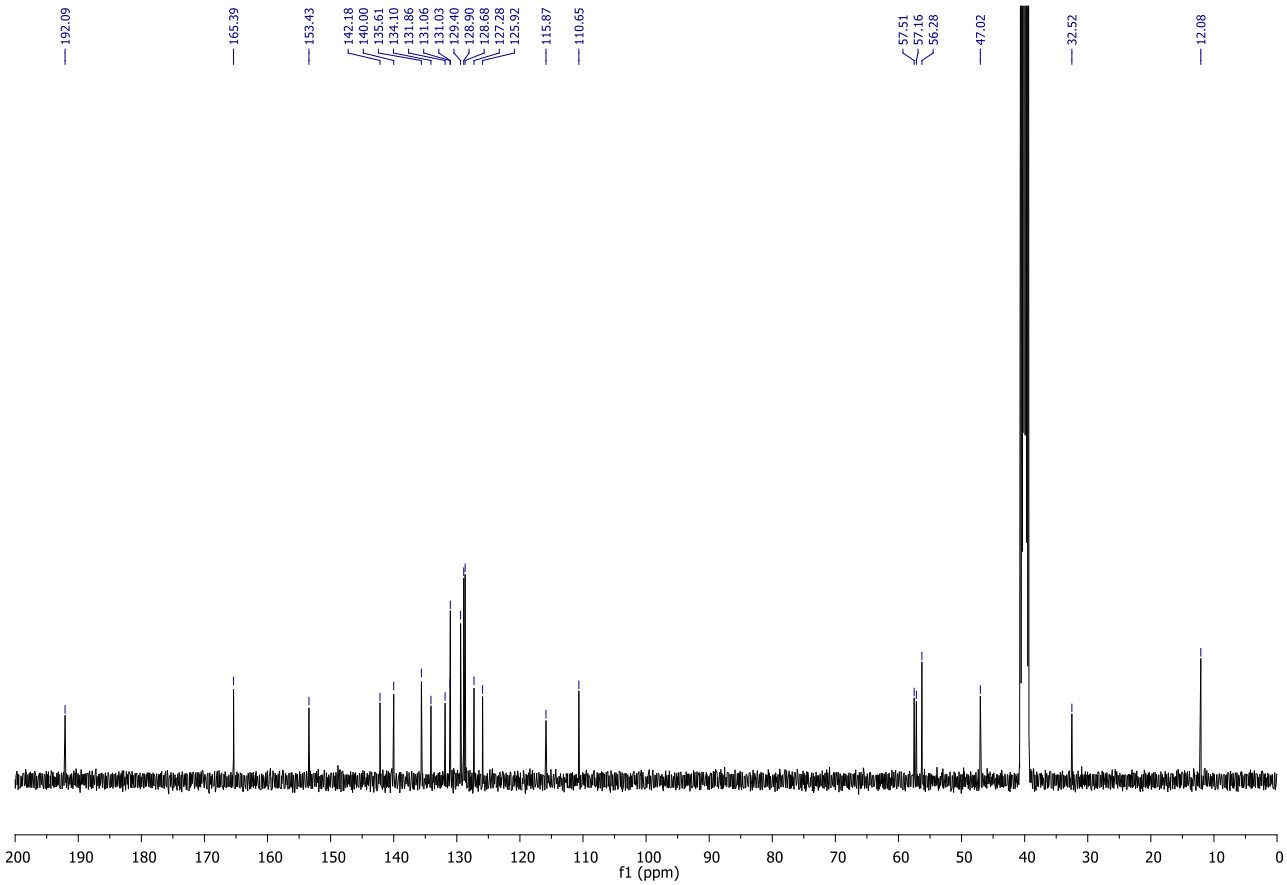

Figure S9. ^{13}C NMR spectrum (100 MHz, $(CD_3)_2SO$) of compound **1i**.

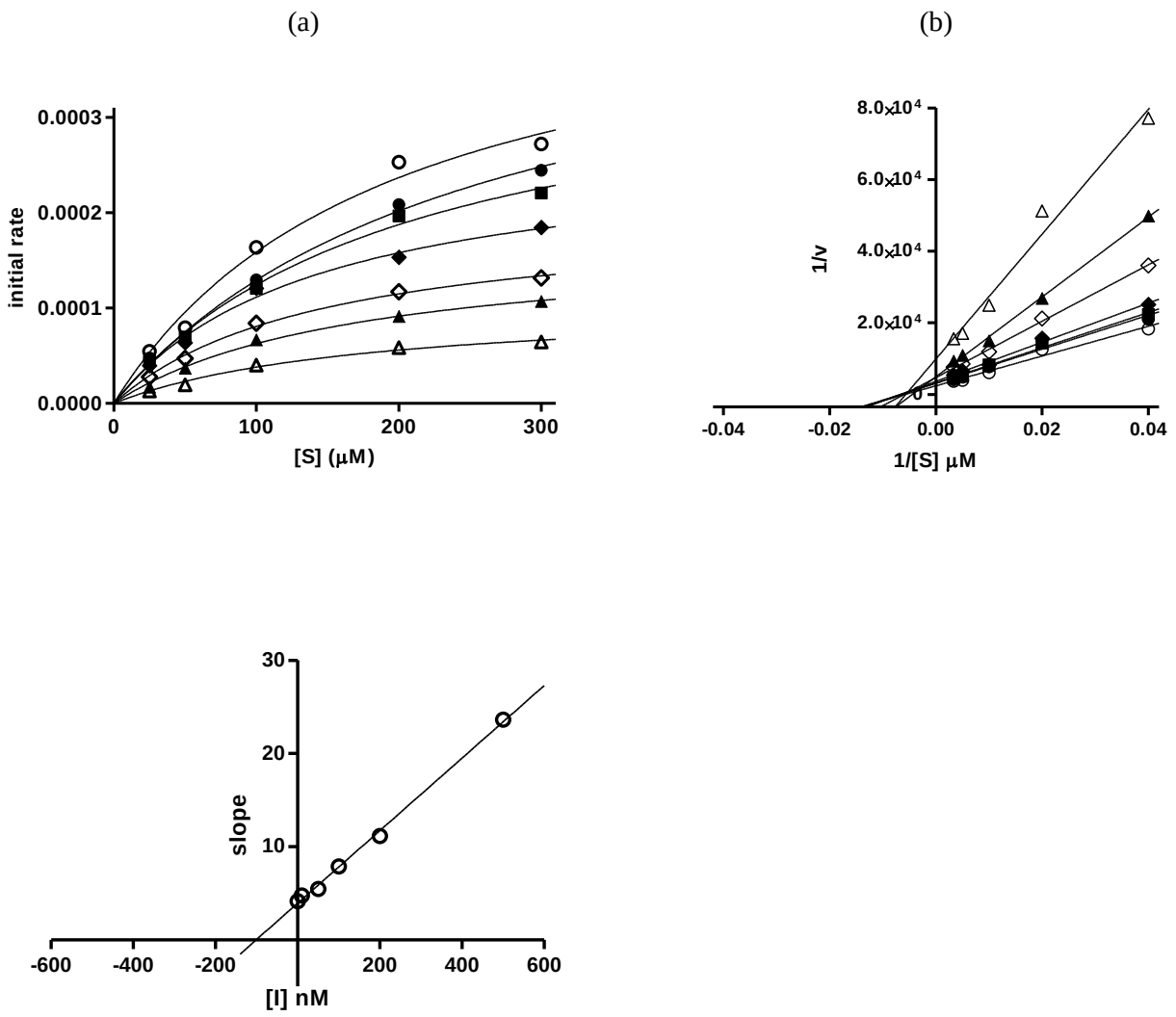

Figure S10. Inhibition kinetics (a) and Lineweaver–Burk plot (b), r^2 = 0.983–0.999 for *h*AChE (0.2 U/mL) and *E*-**1h** (0–500 nM) by using different substrate (acetylthiocholine iodide) concentrations (50–300 μM). The replot (r^2 = 0.997) of the slopes versus [I] determined the K_i (100 nM) as the x-axis intercept: (○) no inhibitor, (●) 10 nM, (■) 25 nM, (◆) 50 nM, (◇) 100 nM, (▲) 200 nM, (△) 500 nM.