SUPPORTING INFORMATION

The insight of *in vitro* and *in silico* studieson cholinesterase inhibitors from the roots of *Cimicifugadahurica*(Turcz.) Maxim.

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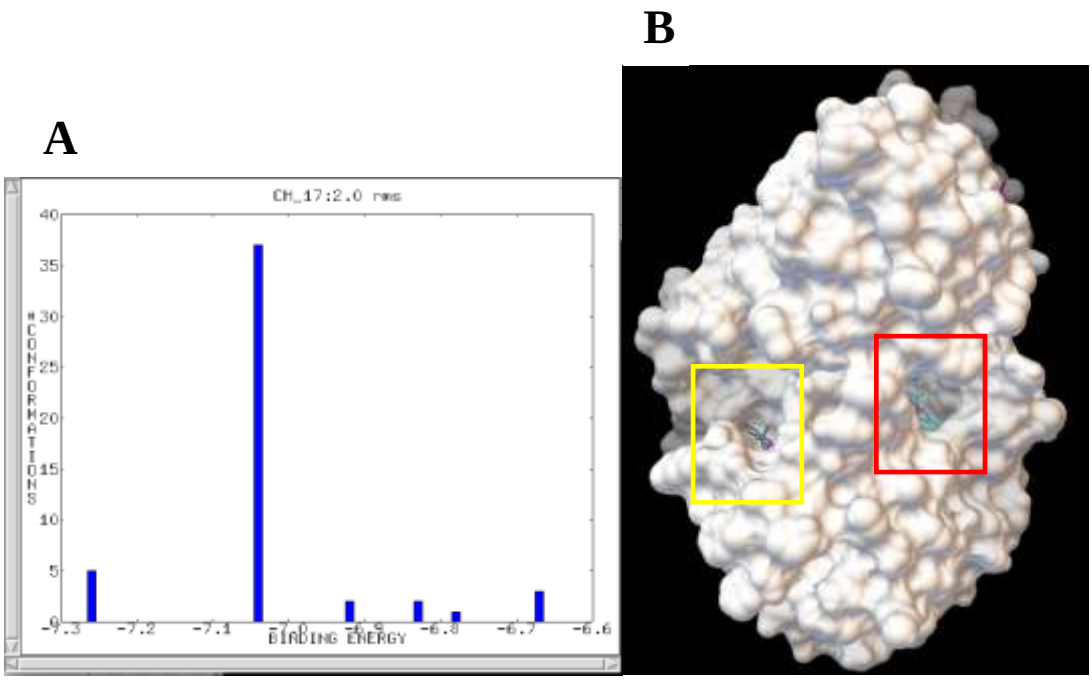

Figure S1. Cluster and Audodock score of compound **4** with BuChE (A). Predicted docking pose of compound **4** with BuChE (B) (red box: activity site; yellow box: predicted binding site).

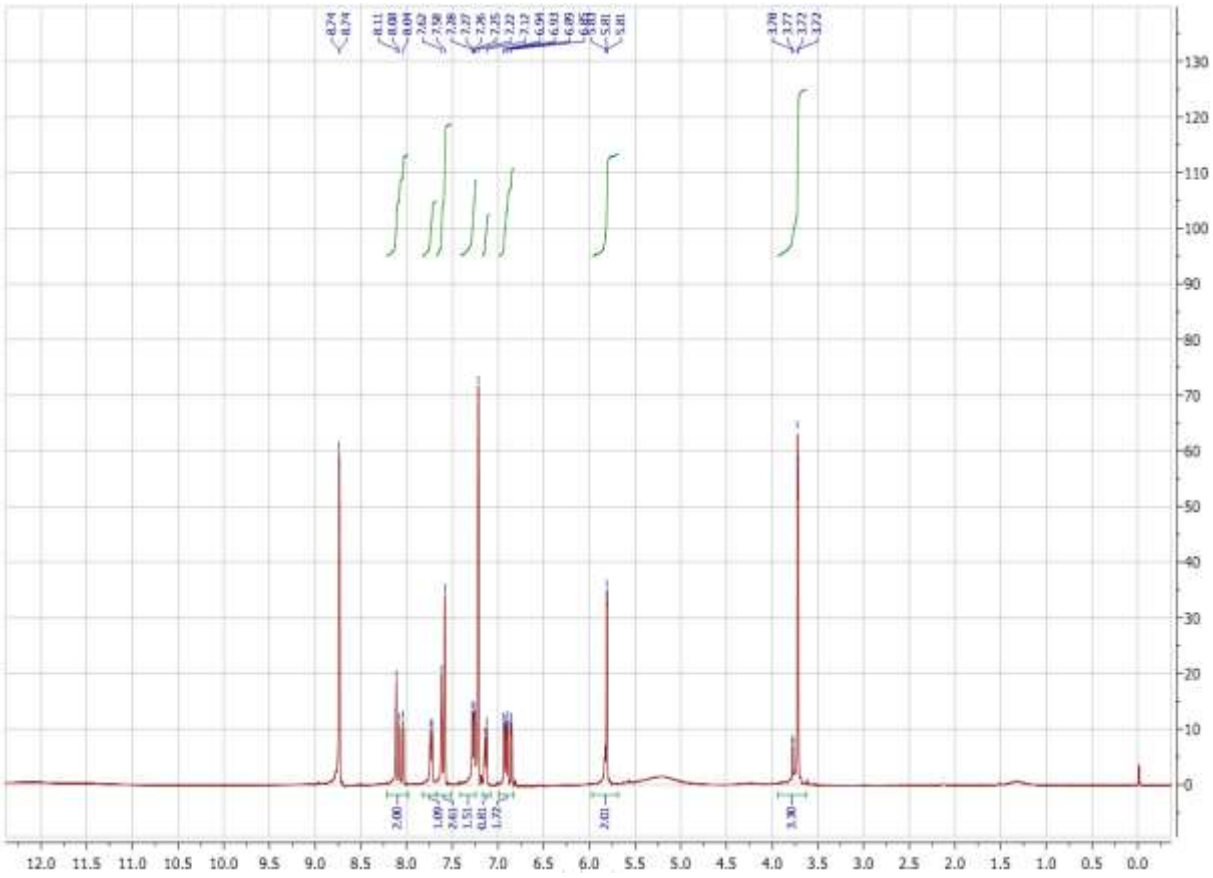

Figure S2. ^{1}H NMR spectrum (Pyridine-d_5, 500 MHz) of compound **1**.

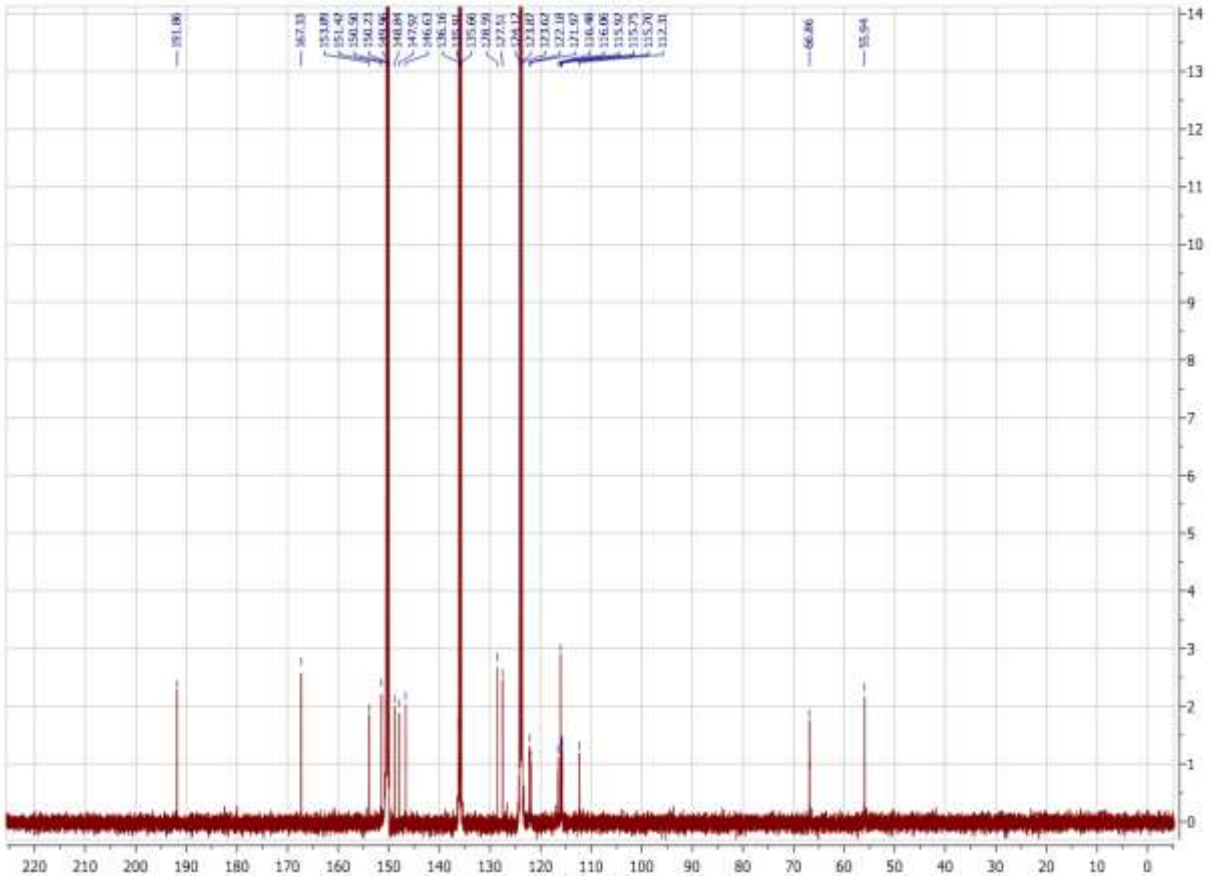

Figure S3. ^{13}C NMR spectrum (Pyridine-d_5, 500 MHz) of compound **1**.

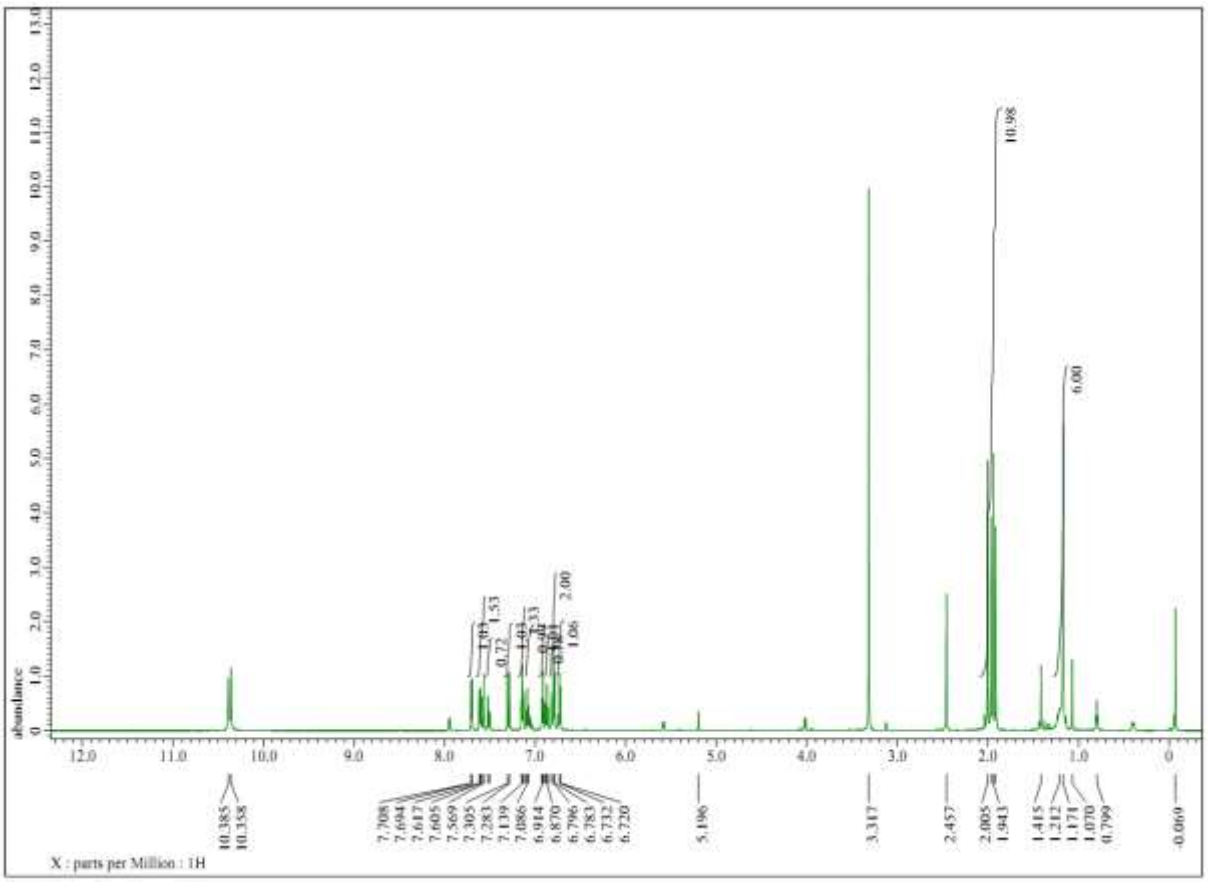

Figure S4. ^{1}H NMR spectrum (DMSO-d_6, 500 MHz) of compound **3**.

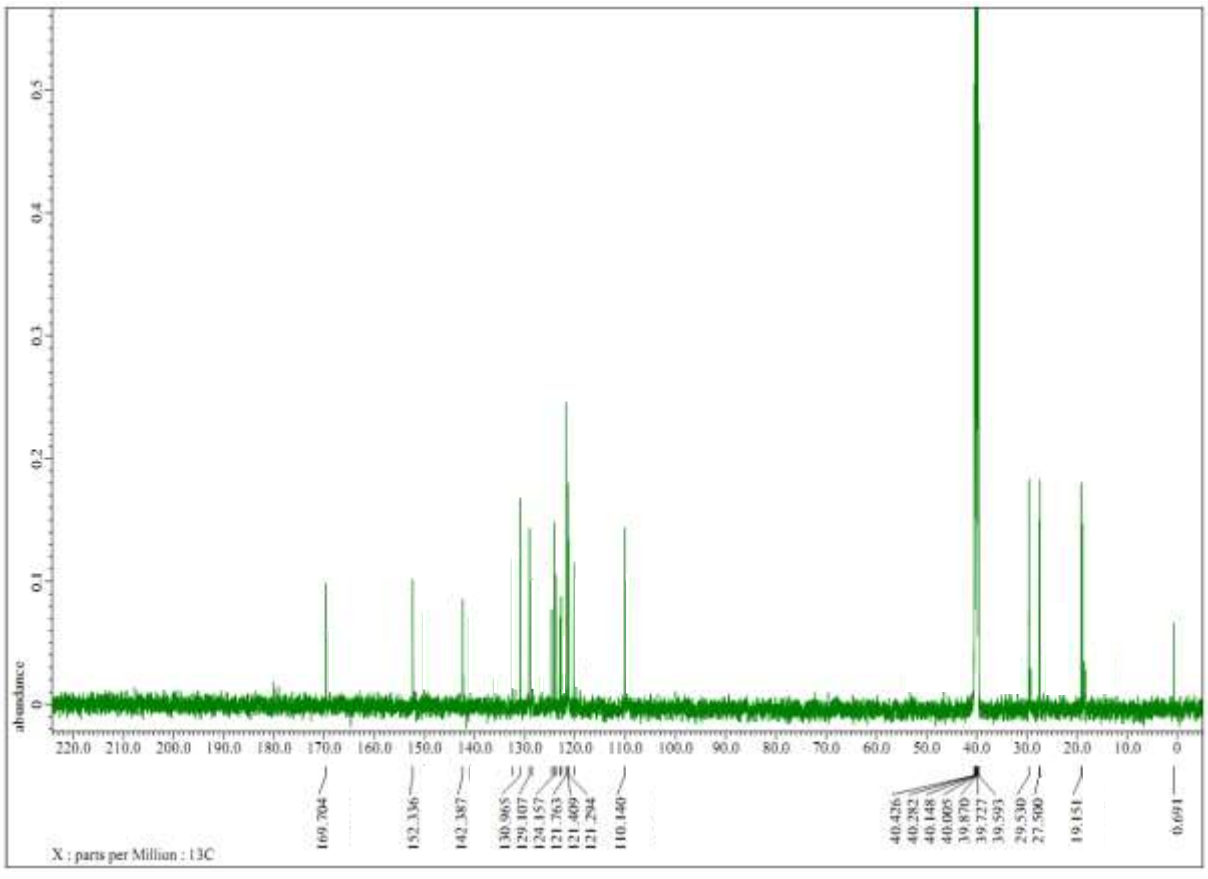

Figure S5. ^{13}C NMR spectrum (DMSO-d_6, 500 MHz) of compound **3**.

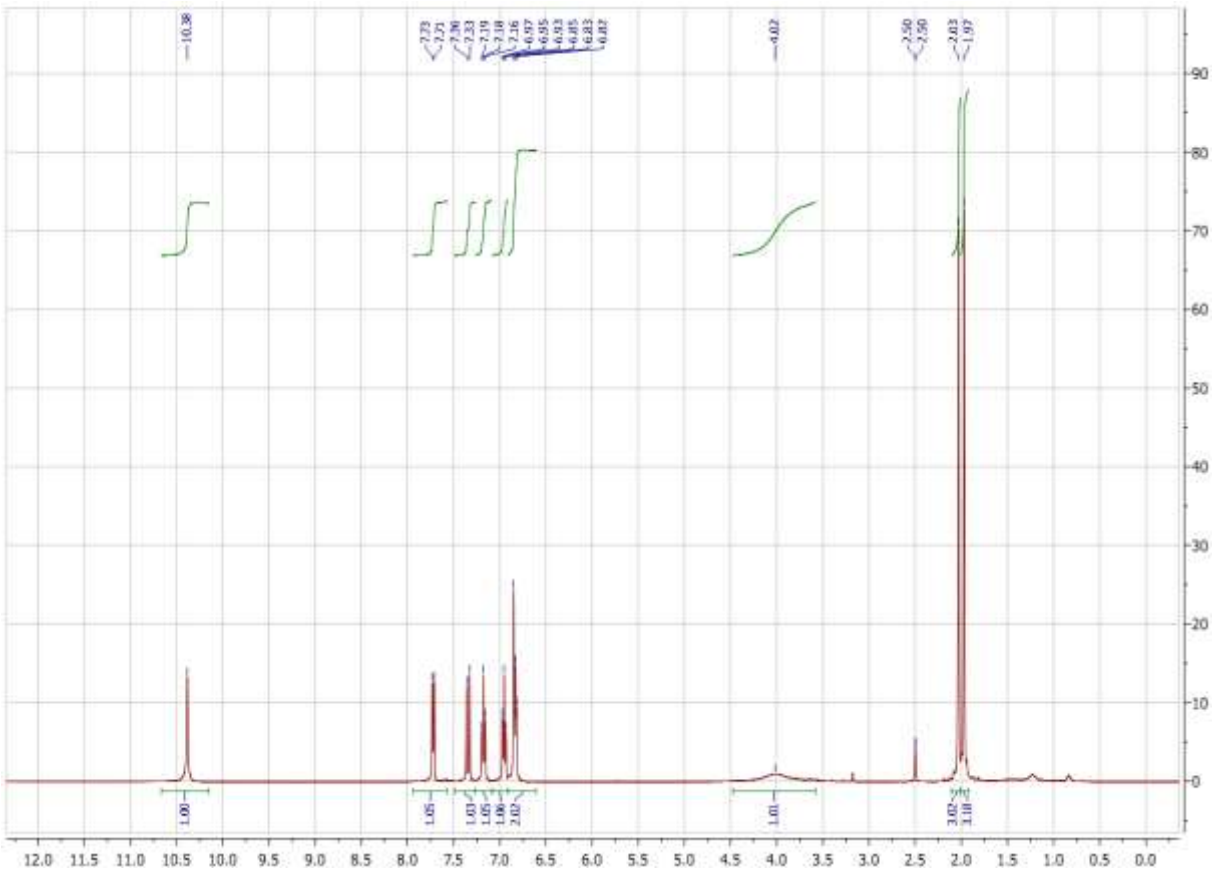

Figure S6. ^{1}H NMR spectrum (DMSO-d_6, 500 MHz) of compound **4**.

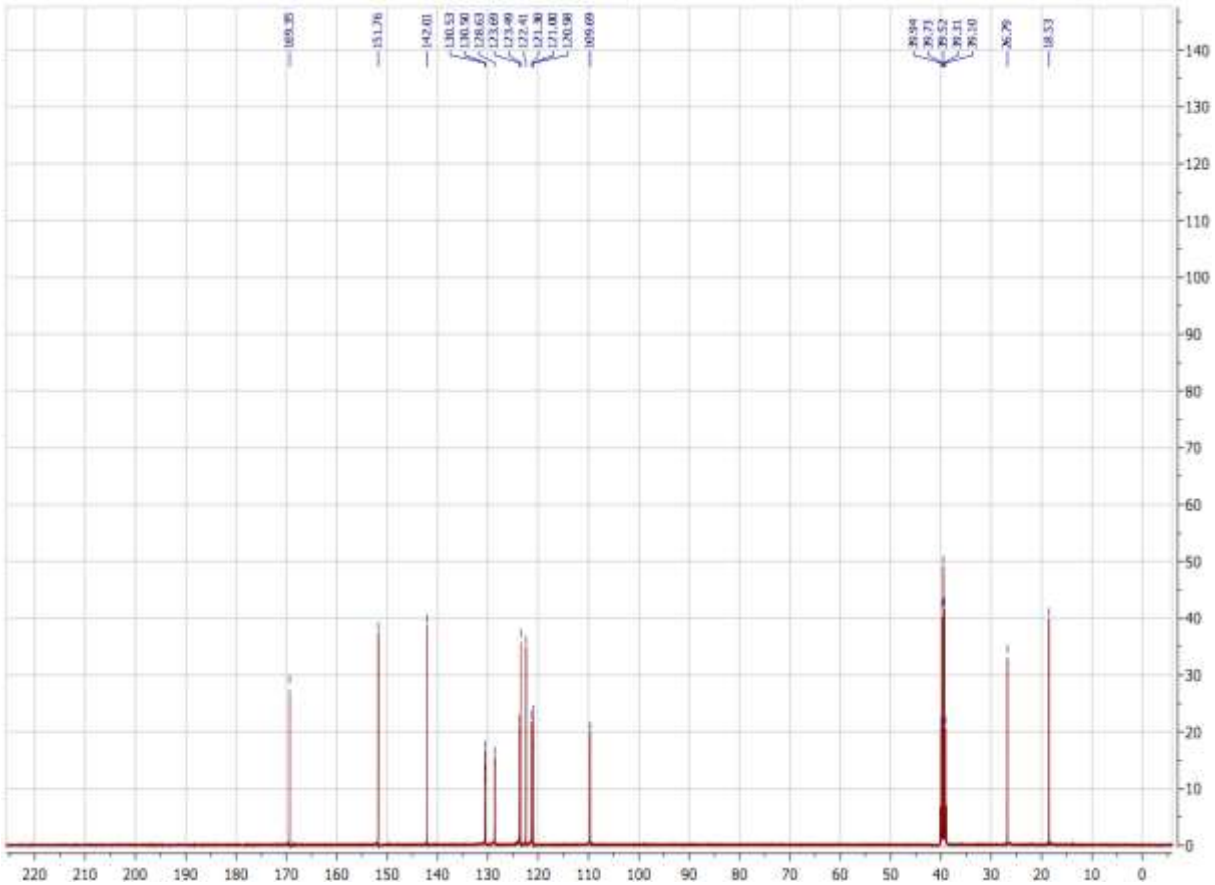

Figure S7. ^{13}C NMR spectrum (DMSO-d_6, 500 MHz) of compound **4**.

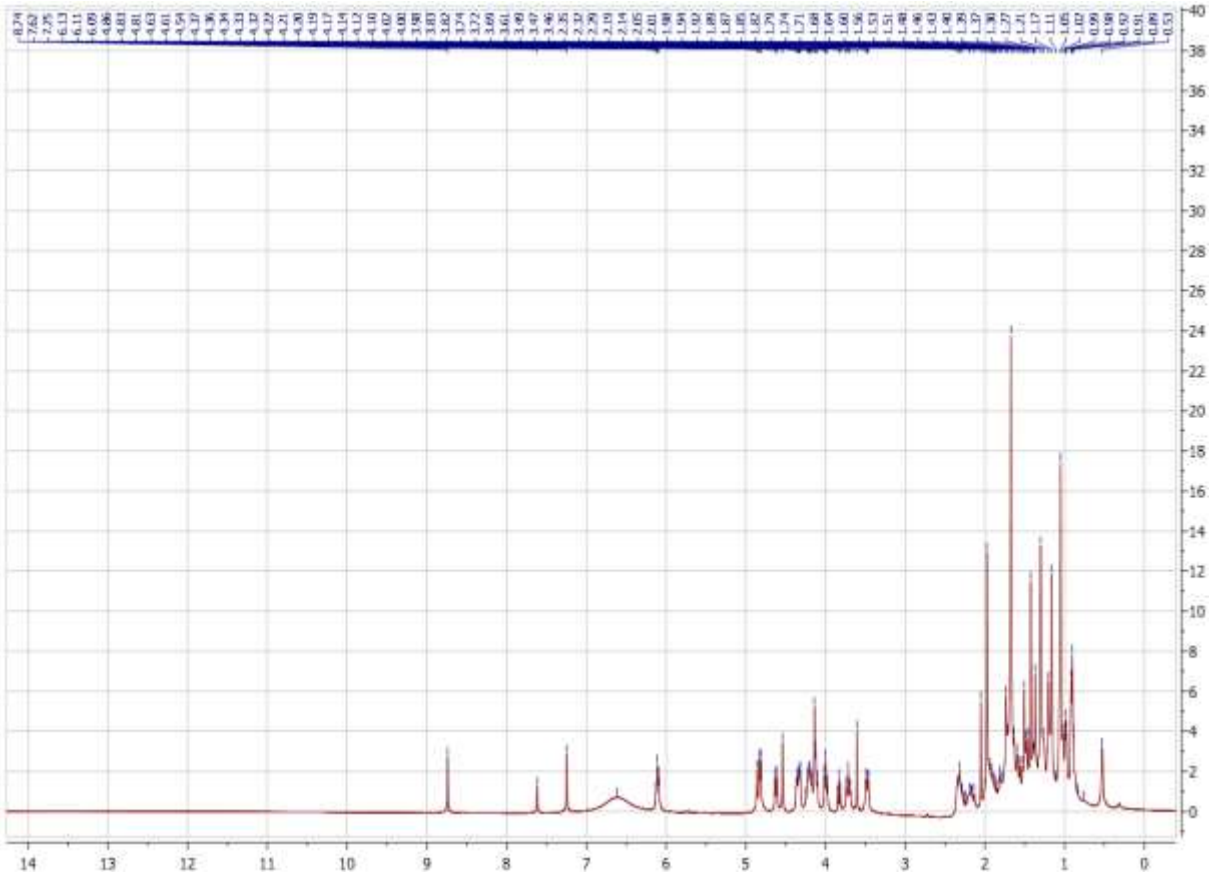

Figure S8. ^{1}H NMR spectrum (Pyridine-d_5, 500 MHz) of compound **14**.

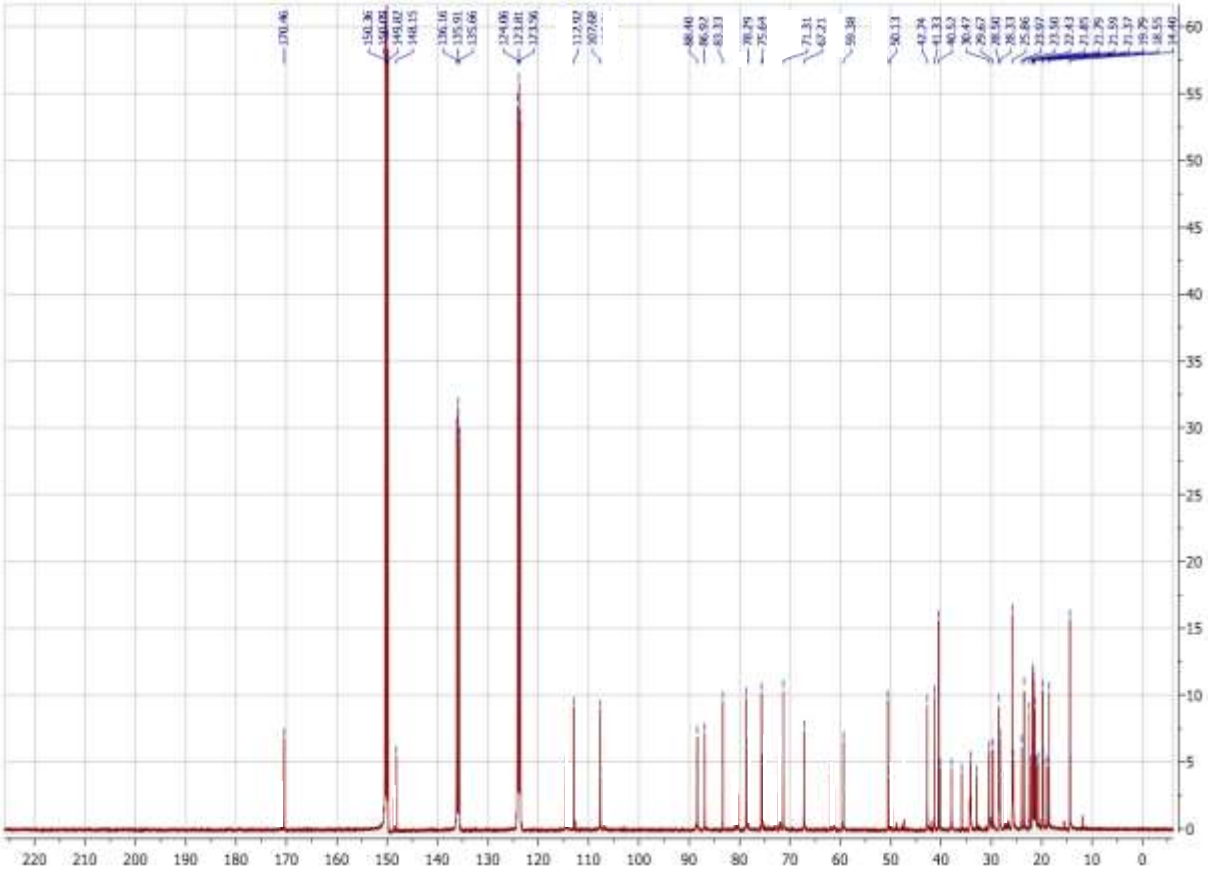

Figure S9. ^{13}C NMR spectrum (Pyridine-d_5, 500 MHz) of compound **14**.