Supplementary materials

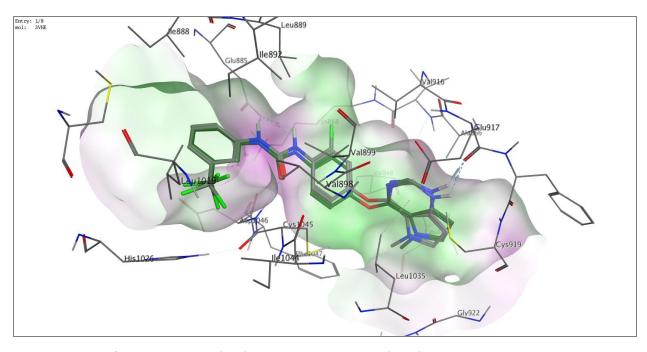


Figure S 1: Overlay of the redocked ligand (gray) and the co crystallized pose (green)

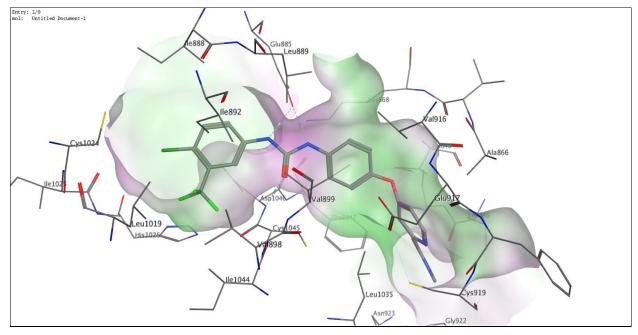


Figure S 2: Binding mode of sorafenib

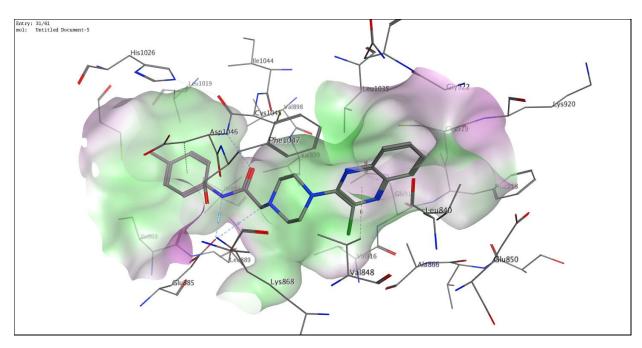


Figure S 3: 3D interaction of compound 10e

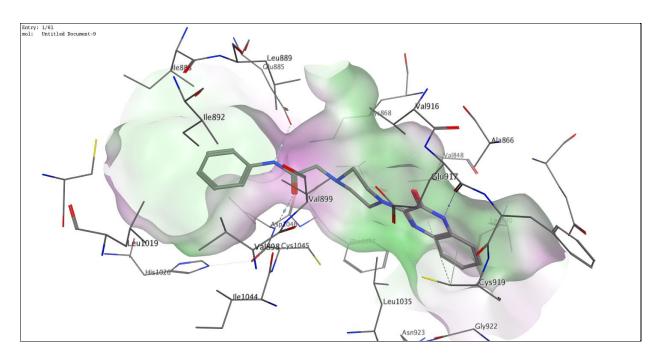


Figure S 4: Binding pattern of compound **13a**

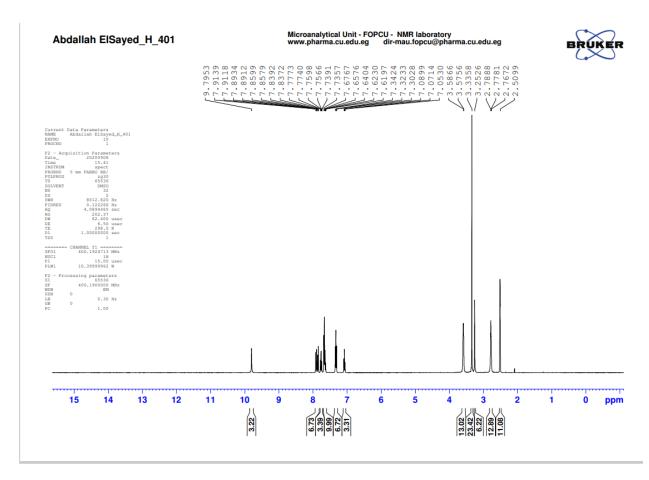


Figure S 5: 1 HNMR chart of compound $\mathbf{10}_{a}$

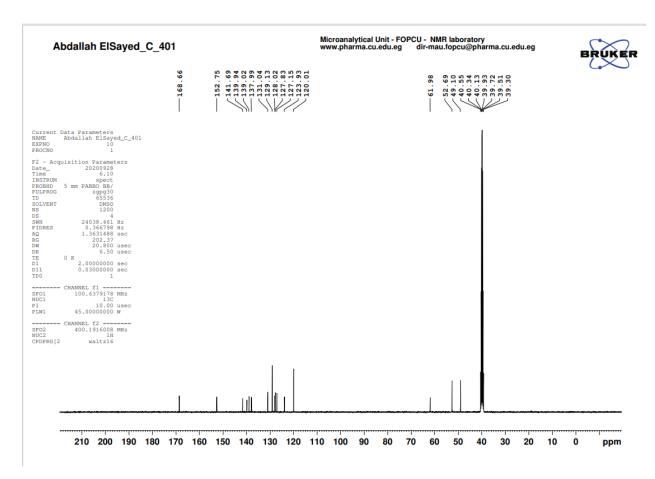


Figure S 6: 13CNMR chart of compound 10a

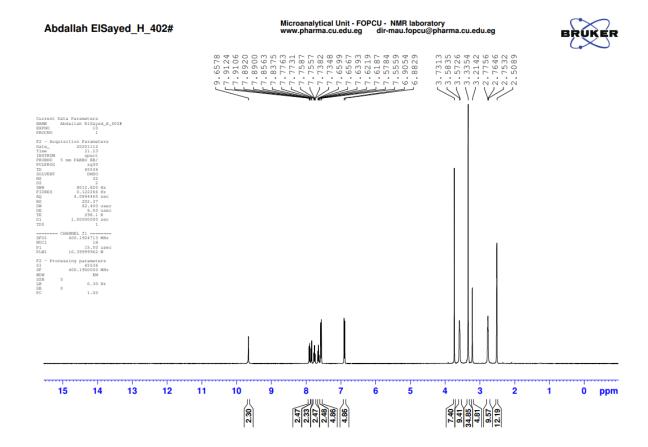


Figure S 7: ¹HNMR chart of compound **10**_b

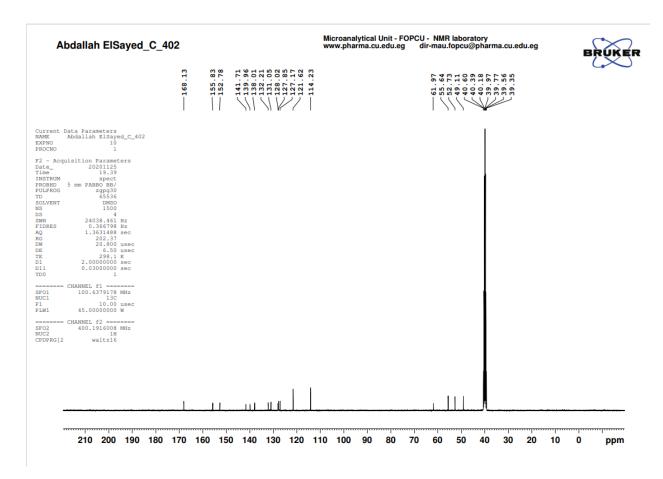


Figure S 8: 13CNMR chart of compound 10_b

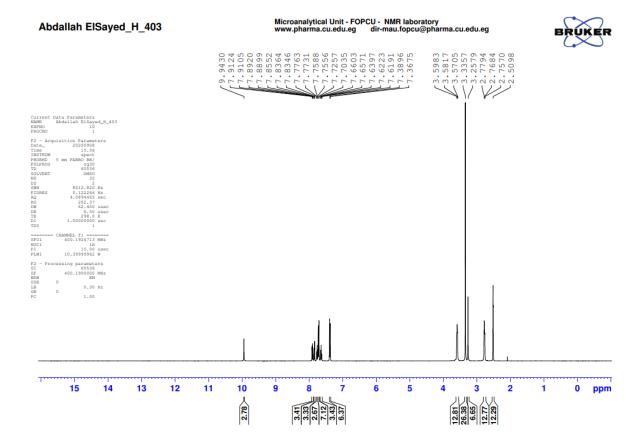


Figure S 9: 1 HNMR chart of compound $\mathbf{10}_c$

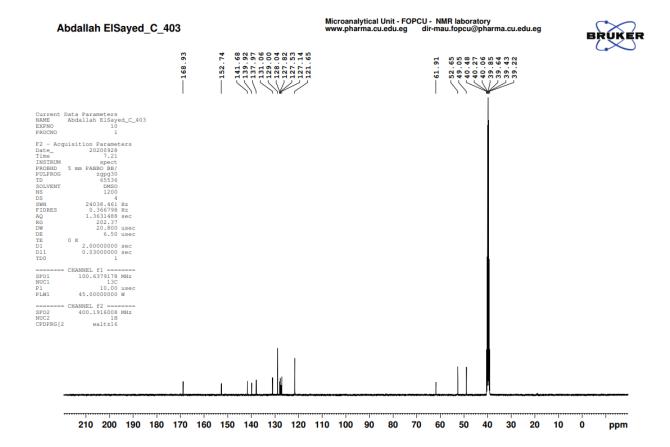


Figure S 10: 13 CNMR chart of compound 10c

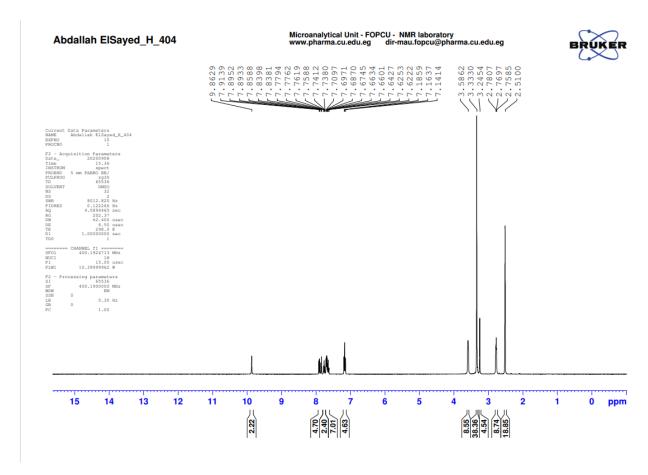


Figure S 11: ¹HNMR chart of compound **10**_d

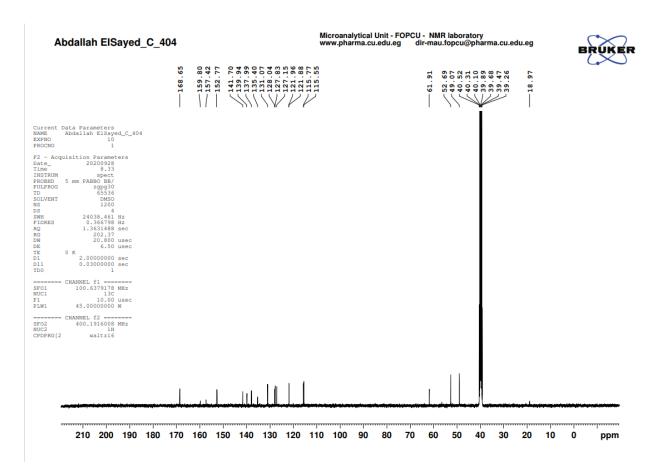


Figure S 12: 13CNMR chart of compound 10_d

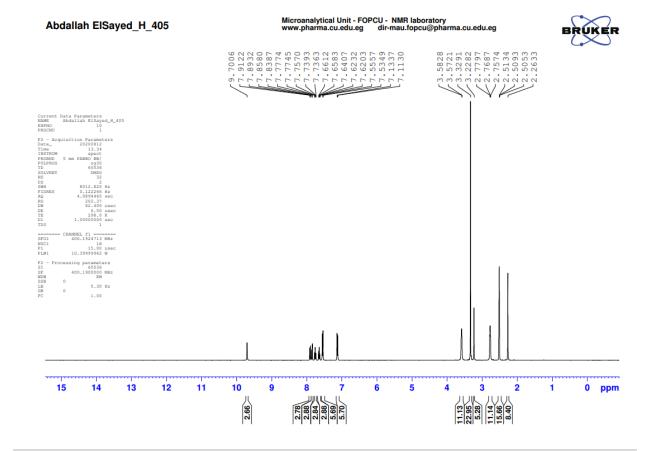


Figure S 13: ¹HNMR chart of compound **10**_e

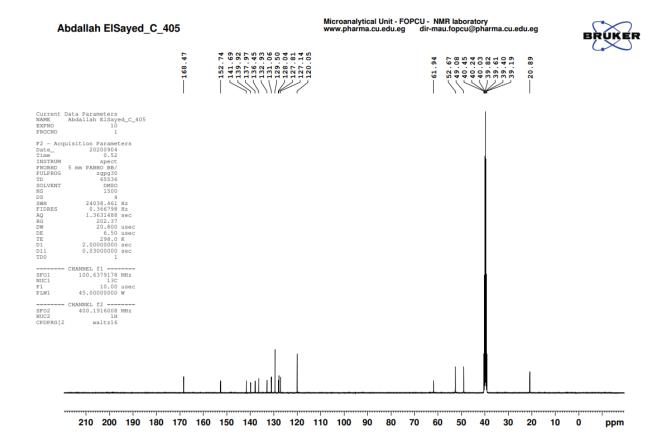


Figure S 14: 13CNMR chart of compound 10e

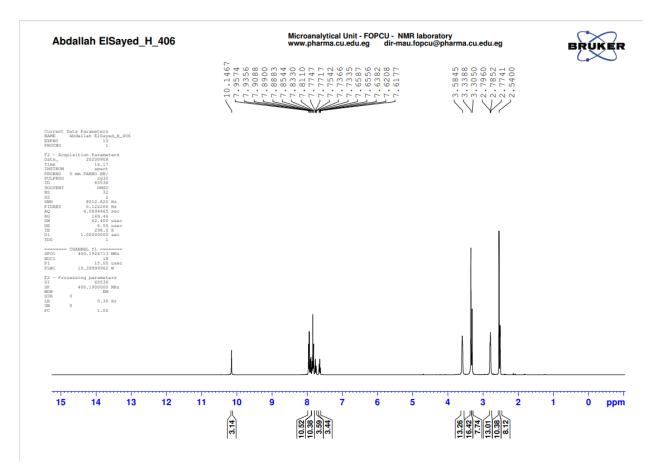


Figure S 15: 1 HNMR chart of compound $\mathbf{10}_f$

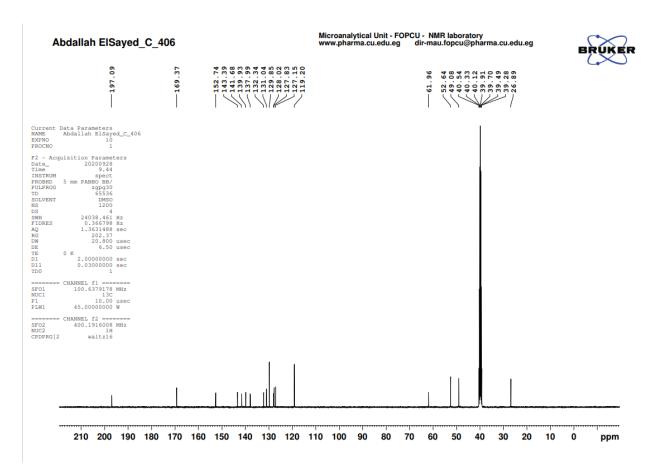


Figure S 16: 13 CNMR chart of compound $\mathbf{10}_{f}$

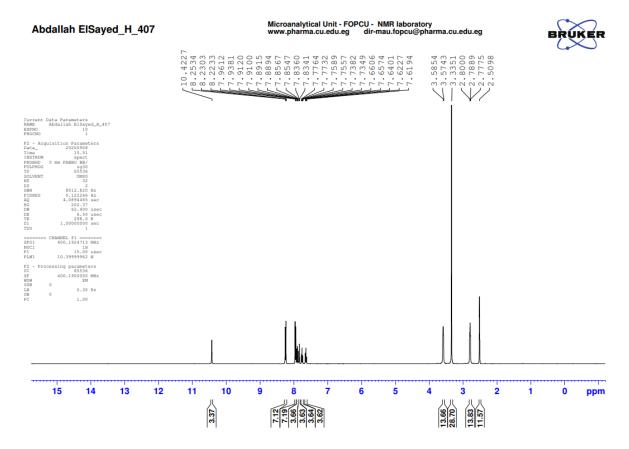


Figure S 17: 1 HNMR chart of compound $\mathbf{10}_g$

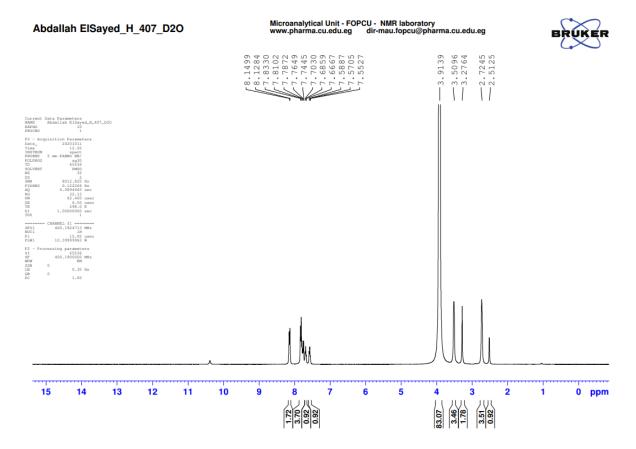


Figure S 18 : D_2O ¹HNMR chart of compound $\mathbf{10}_g$

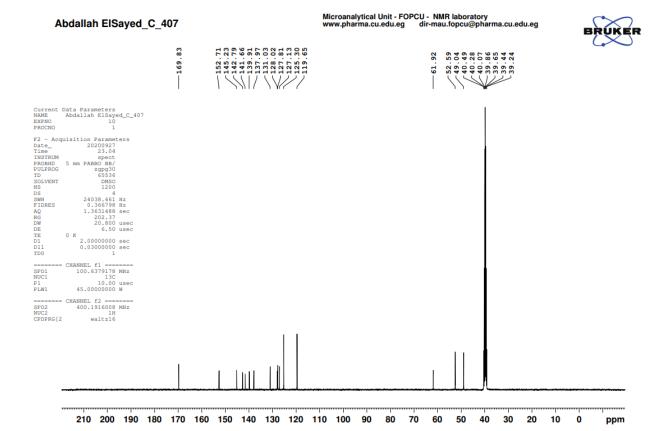


Figure S 19: 13 CNMR chart of compound $\mathbf{10_g}$

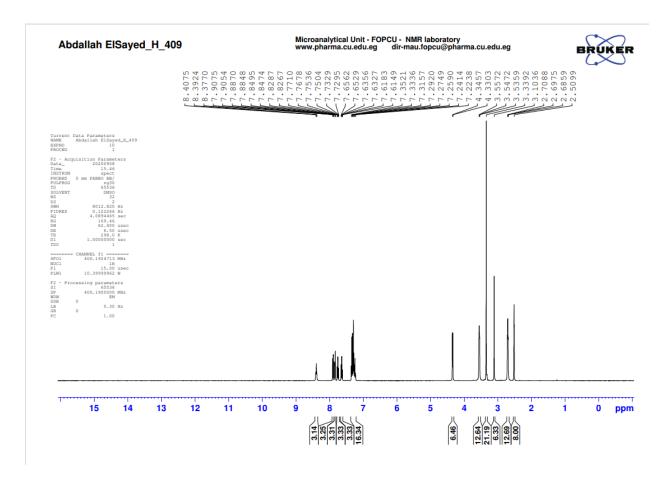


Figure S 20: ¹HNMR chart of compound **11**

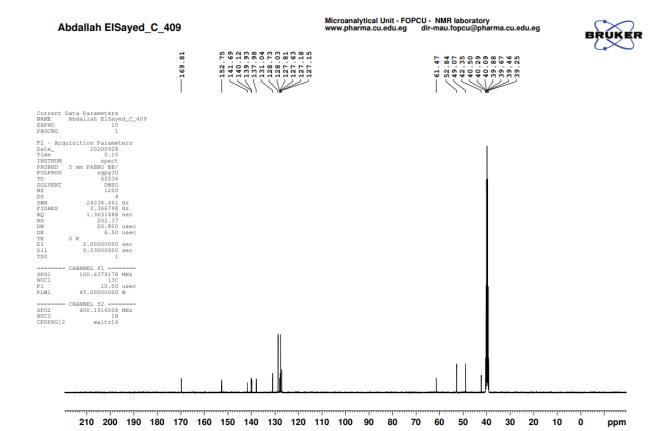
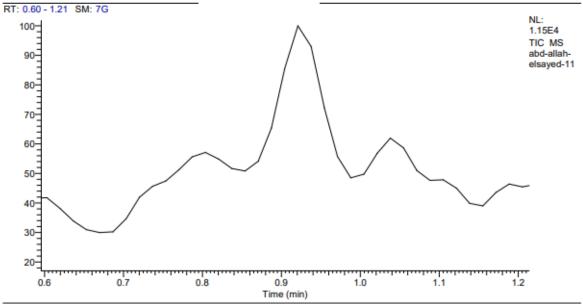


Figure S 21: 13 CNMR chart of compound 11



abd-allah-elsayed-11 #54-59 RT: 0.92-1.00 AV: 6 NL: 1.03E2 T: + c El Full ms [40.00-1000.00]

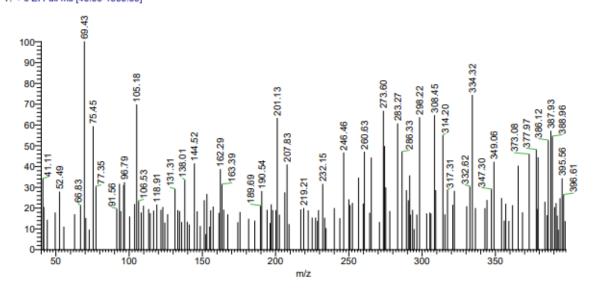


Figure S 22: Mass spec. of compound 11

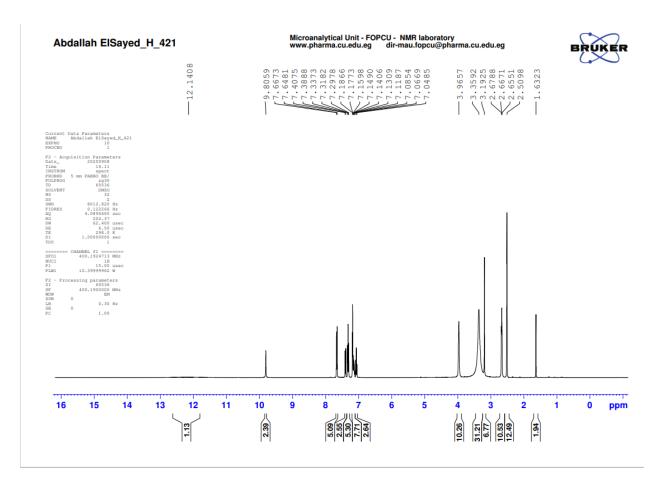


Figure S 23: ¹HNMR chart of compound **13**_a

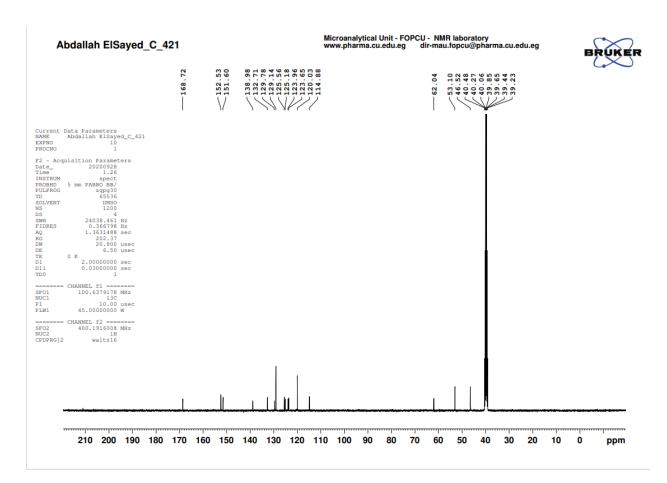


Figure S 24: ¹³CNMR chart of compound **13**_a

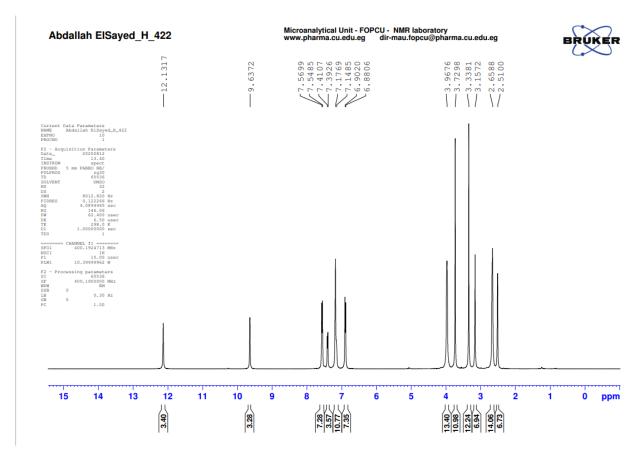


Figure S 25: ¹HNMR chart of compound **13**_b



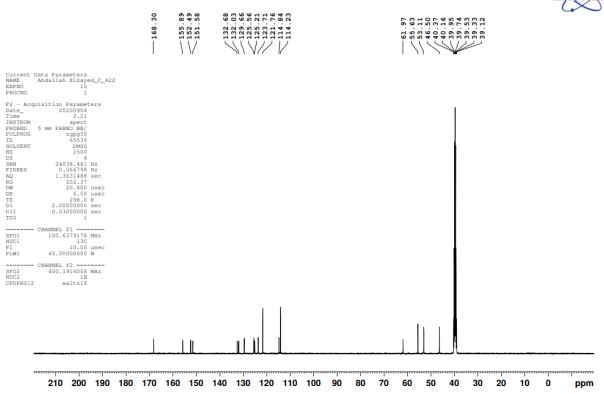


Figure S 26: 13CNMR chart of compound 13_b

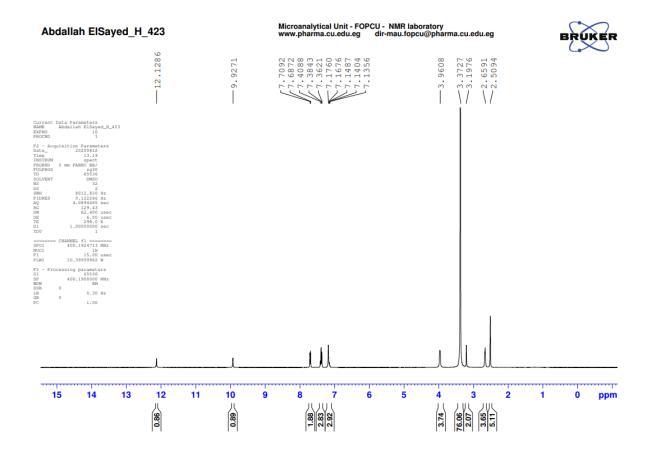


Figure S 27: ¹HNMR chart of compound **13**_c

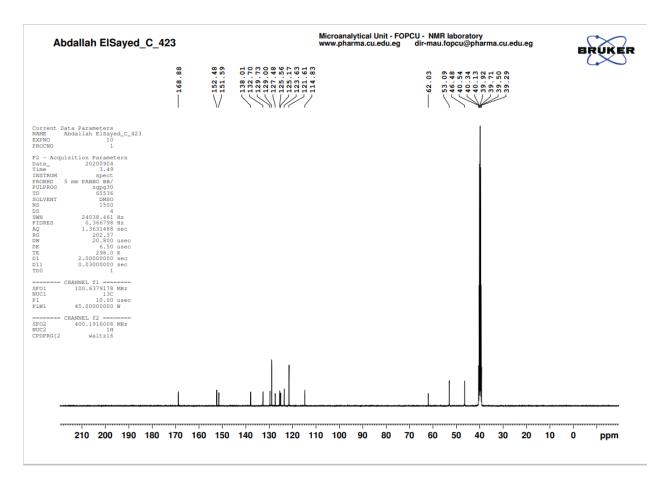


Figure S 28: 13CNMR chart of compound 13c

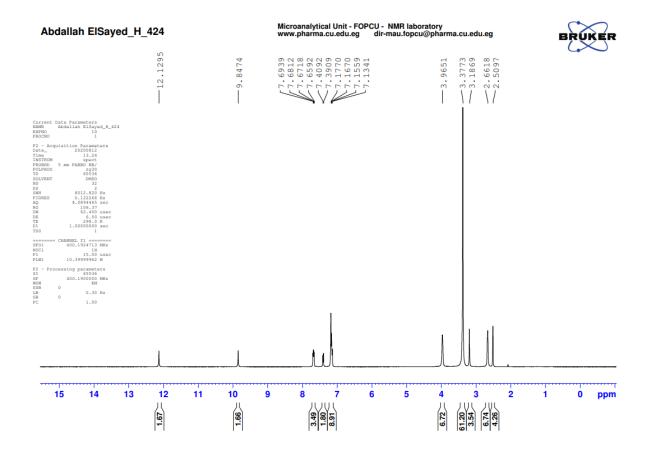


Figure S 29: ¹HNMR chart of compound **13**_d



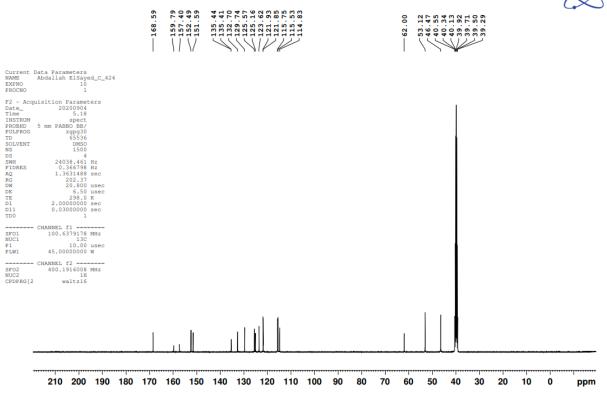


Figure S 30: 13CNMR chart of compound 13_d

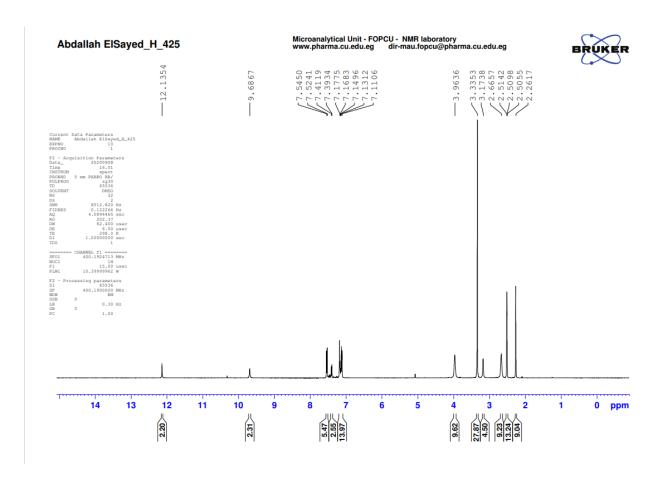
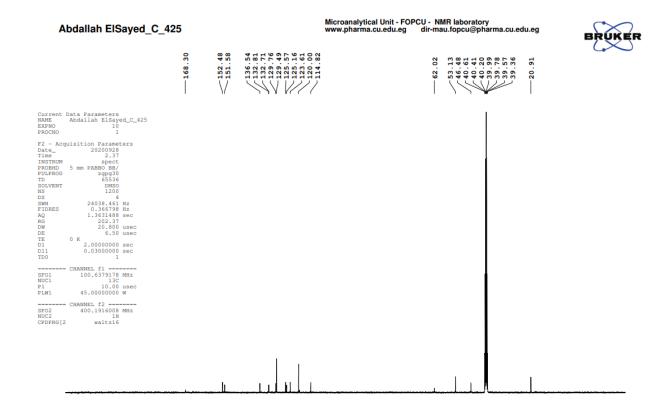


Figure S 31: ¹HNMR chart of compound **13**_e



50 40 30 20 10 0

ppm

210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60

Figure S 32: ¹³CNMR chart of compound **13**_e

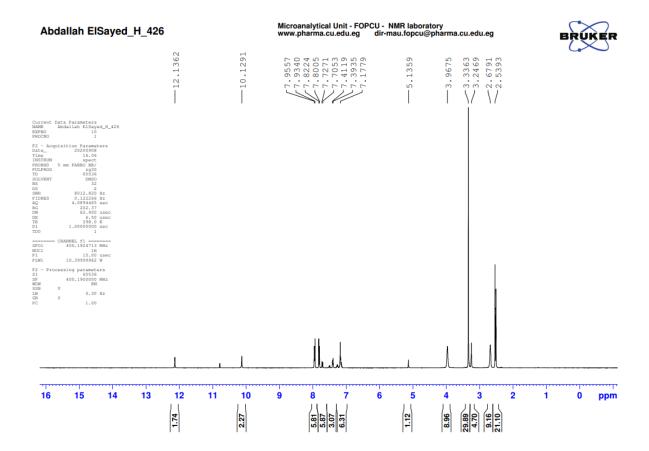


Figure S 33: 1 HNMR chart of compound $\mathbf{13}_f$

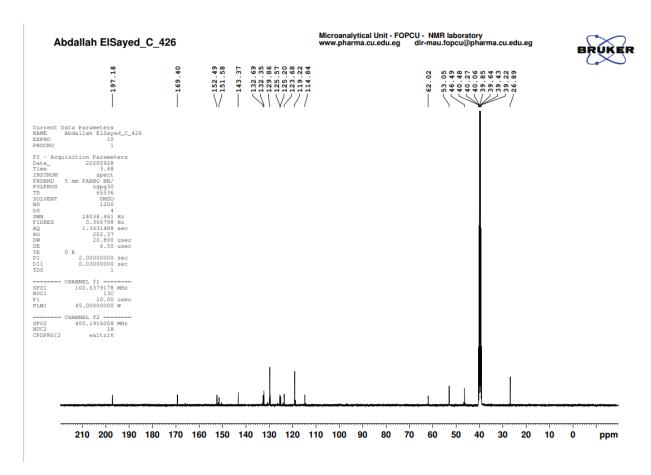


Figure S 34: 13 CNMR chart of compound $\mathbf{13}_{f}$

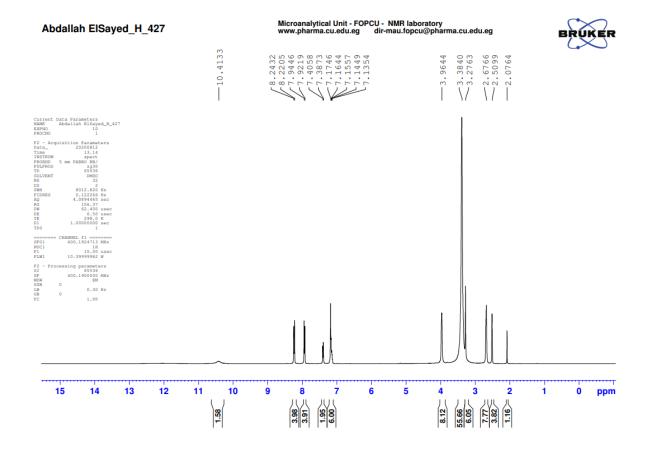


Figure S 35: ¹HNMR chart of compound 13_g

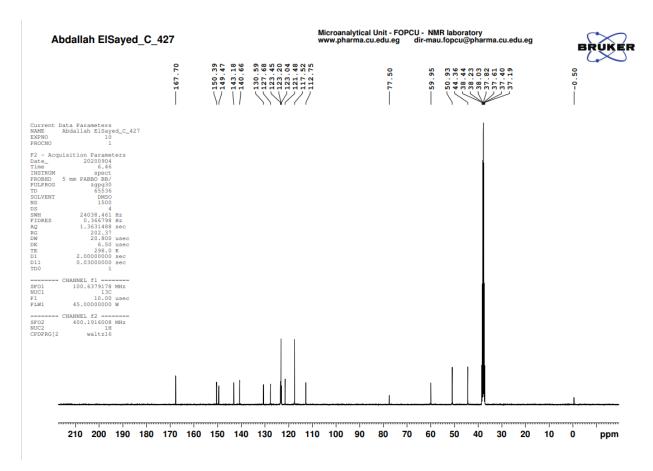


Figure S 36: ¹³CNMR chart of compound **13**_g

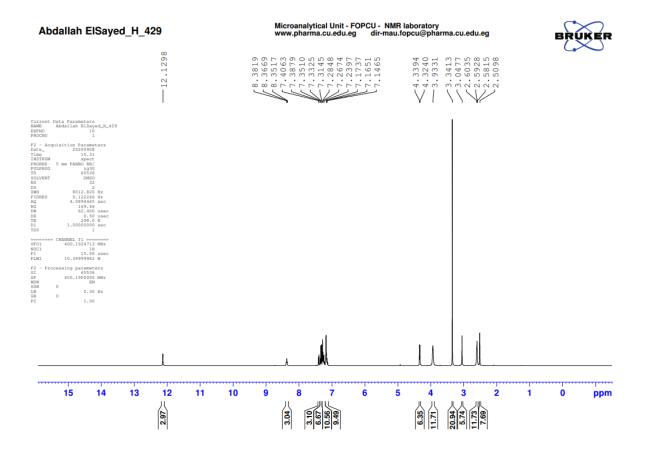
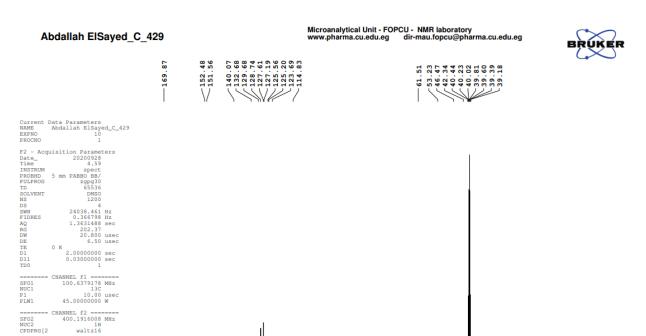


Figure S 37: ¹HNMR chart of compound **14**



ppm

Figure S 38: 13CNMR chart of compound 14

210 200 190 180 170 160 150 140 130 120 110 100 90 80 70