

Benzilic acid based new 2-aryl-1,3-thiazolidin-4-one derivatives: synthesis and anticancer activity

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(Supplementary Material)

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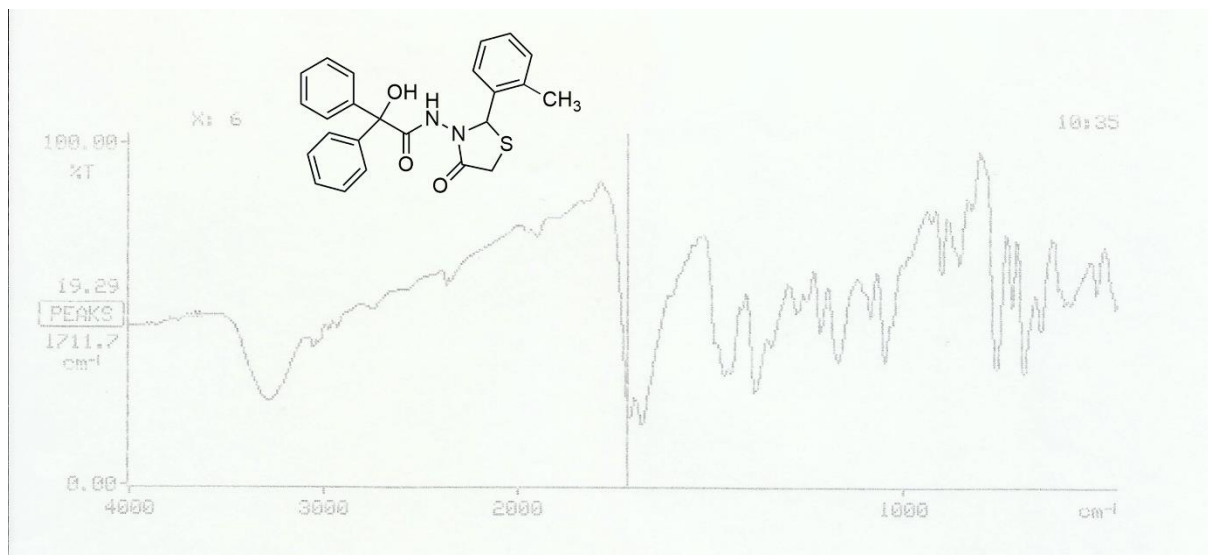


Figure S1: IR (KBr) Spectrum of Compound **3a**

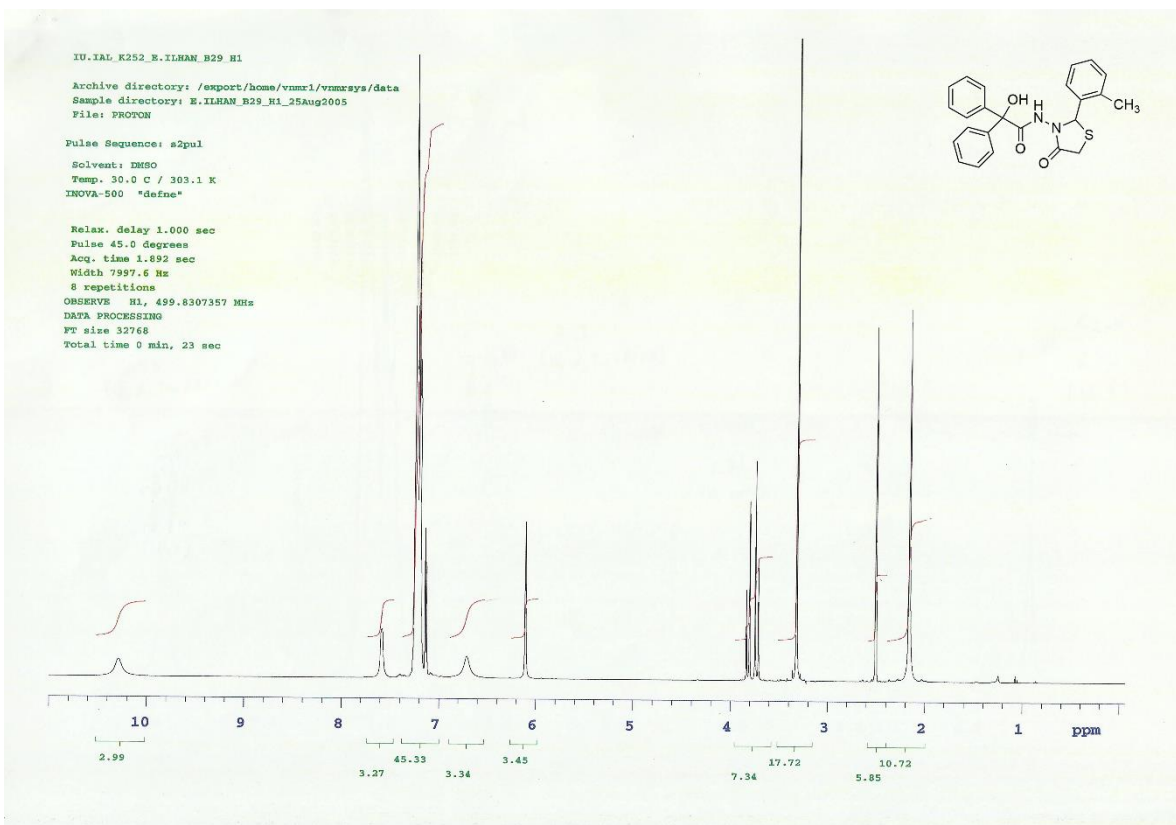


Figure S2: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **3a**

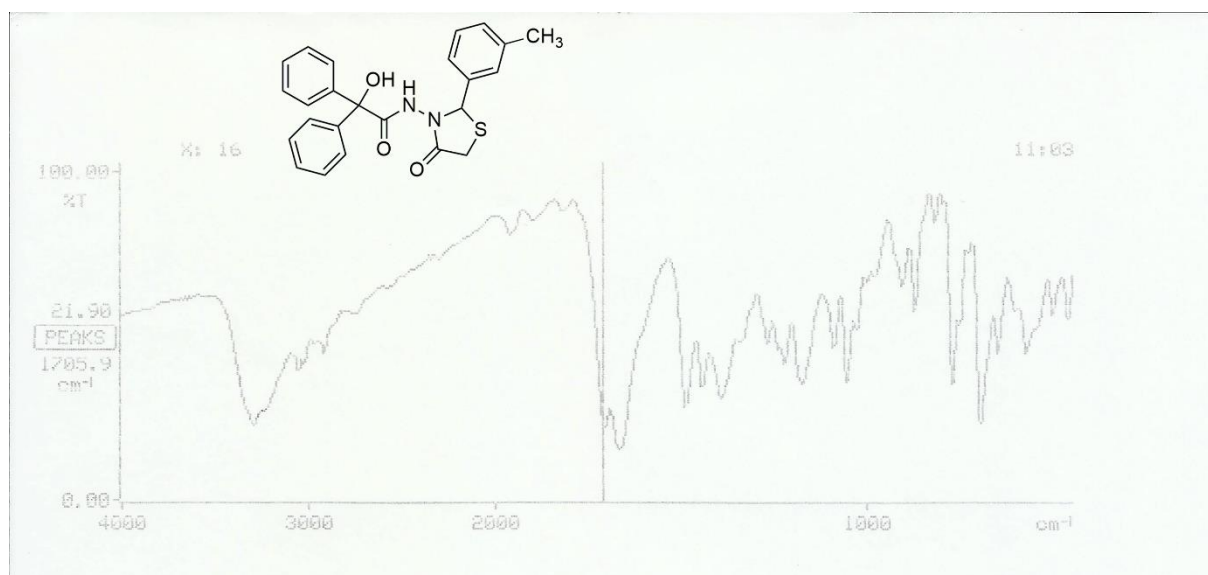


Figure S3: IR (KBr) Spectrum of Compound **3b**

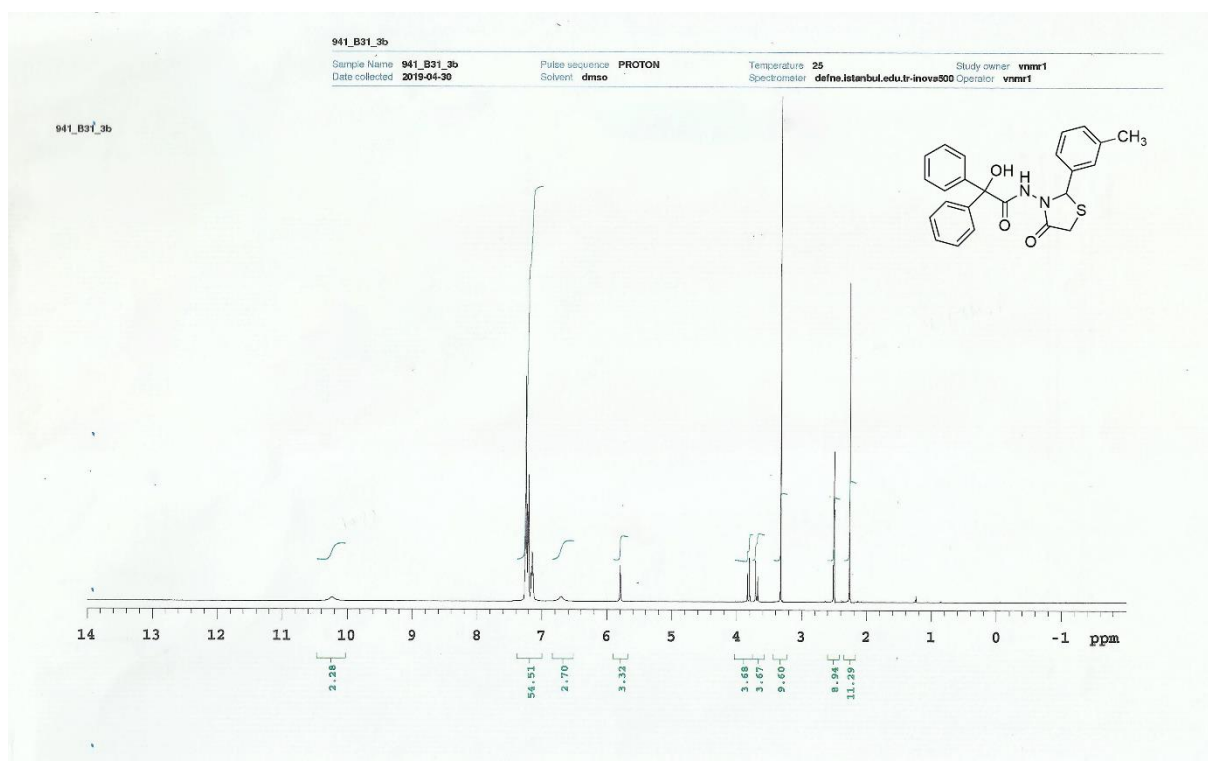


Figure S4: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **3b**

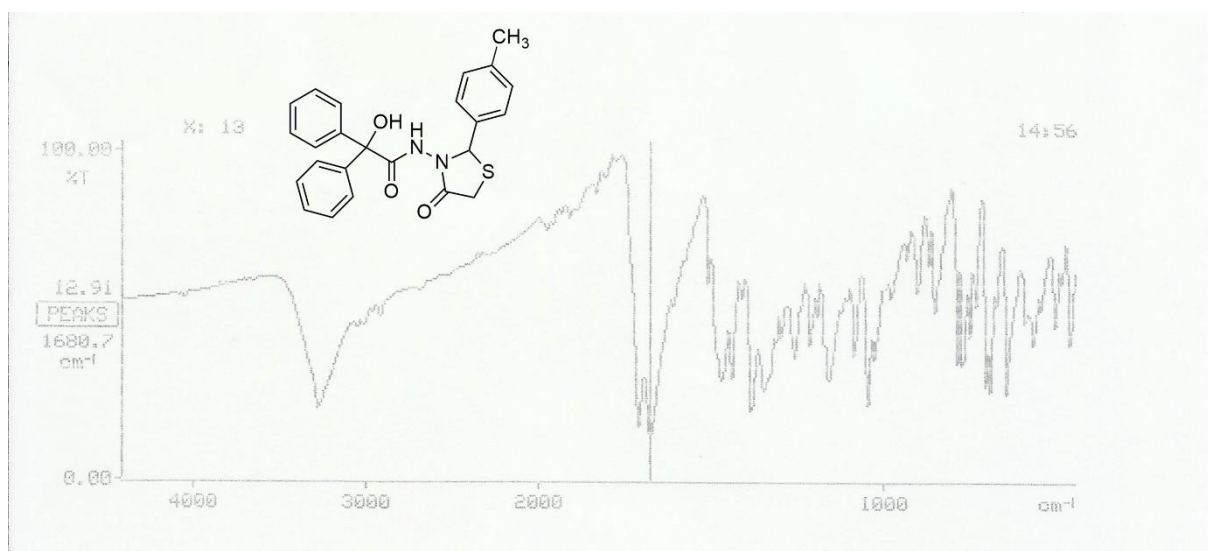


Figure S5: IR (KBr) Spectrum of Compound 3c

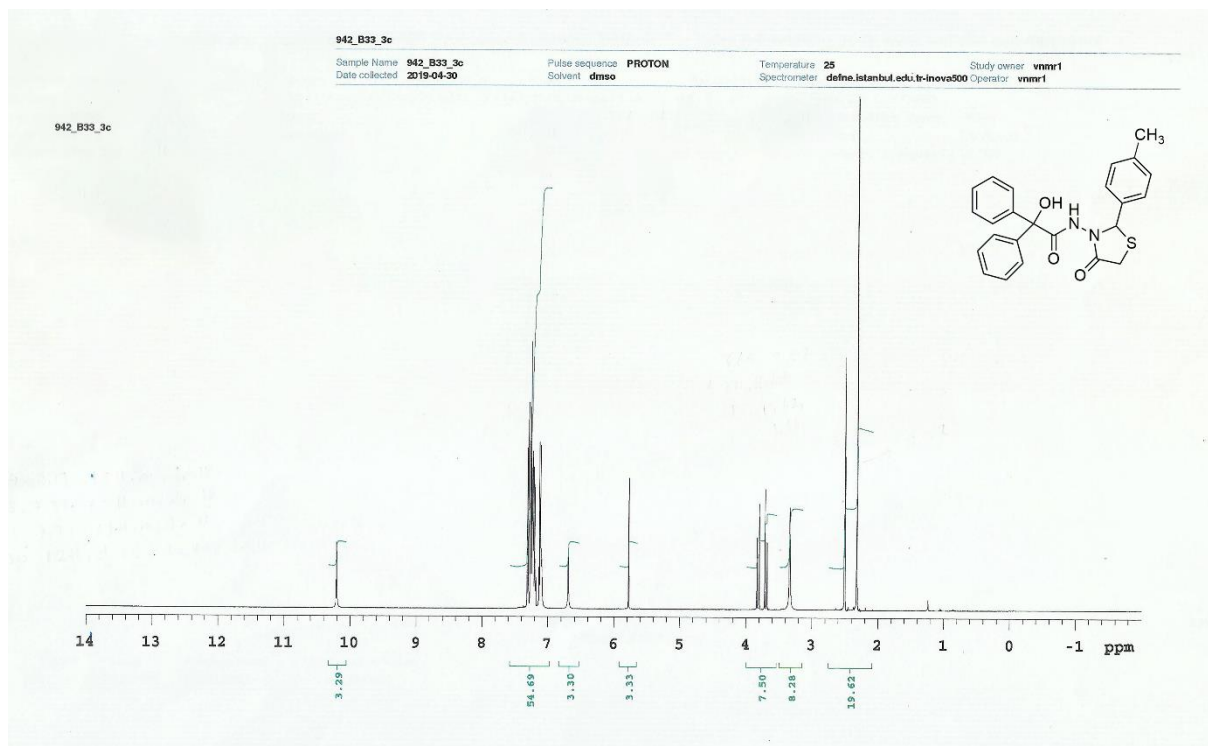


Figure S6: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **3c**

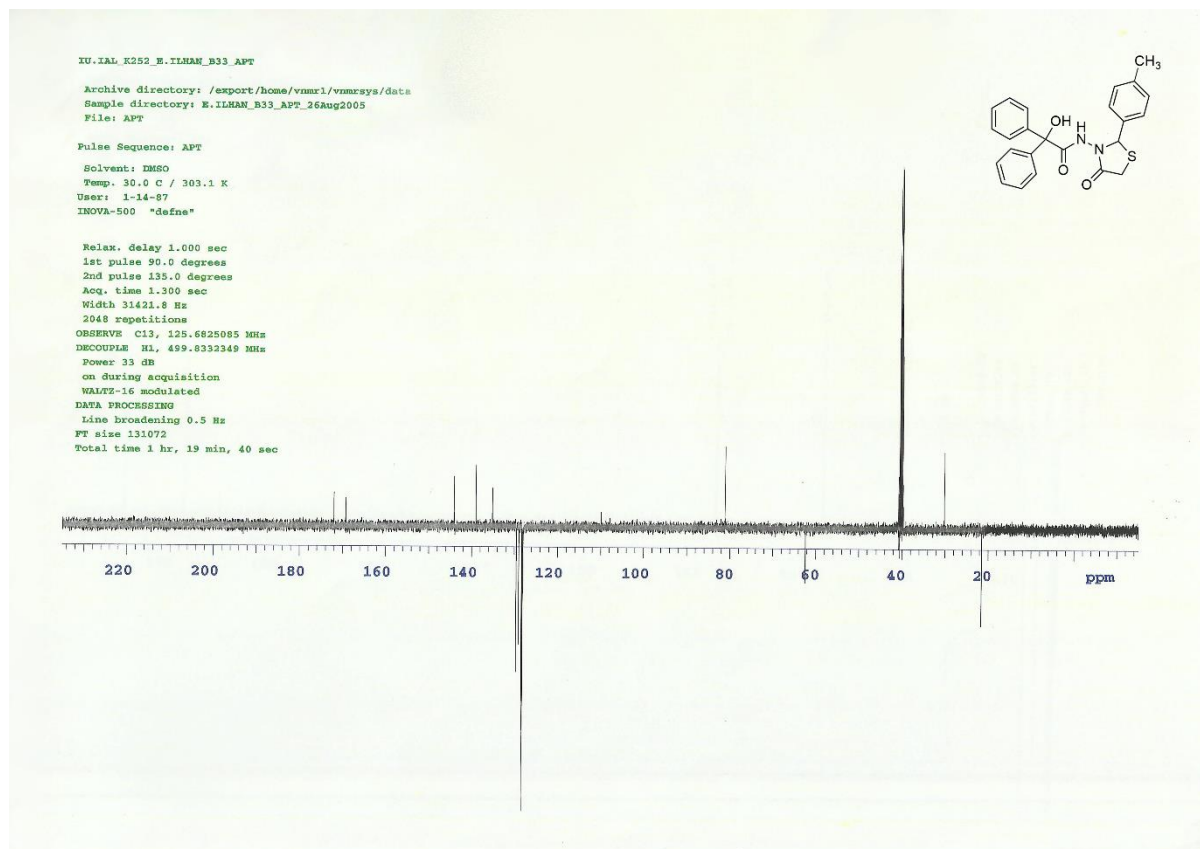


Figure S7: ^{13}C -NMR (125.6 MHz, APT (decoupled)) Spectrum of Compound **3c**

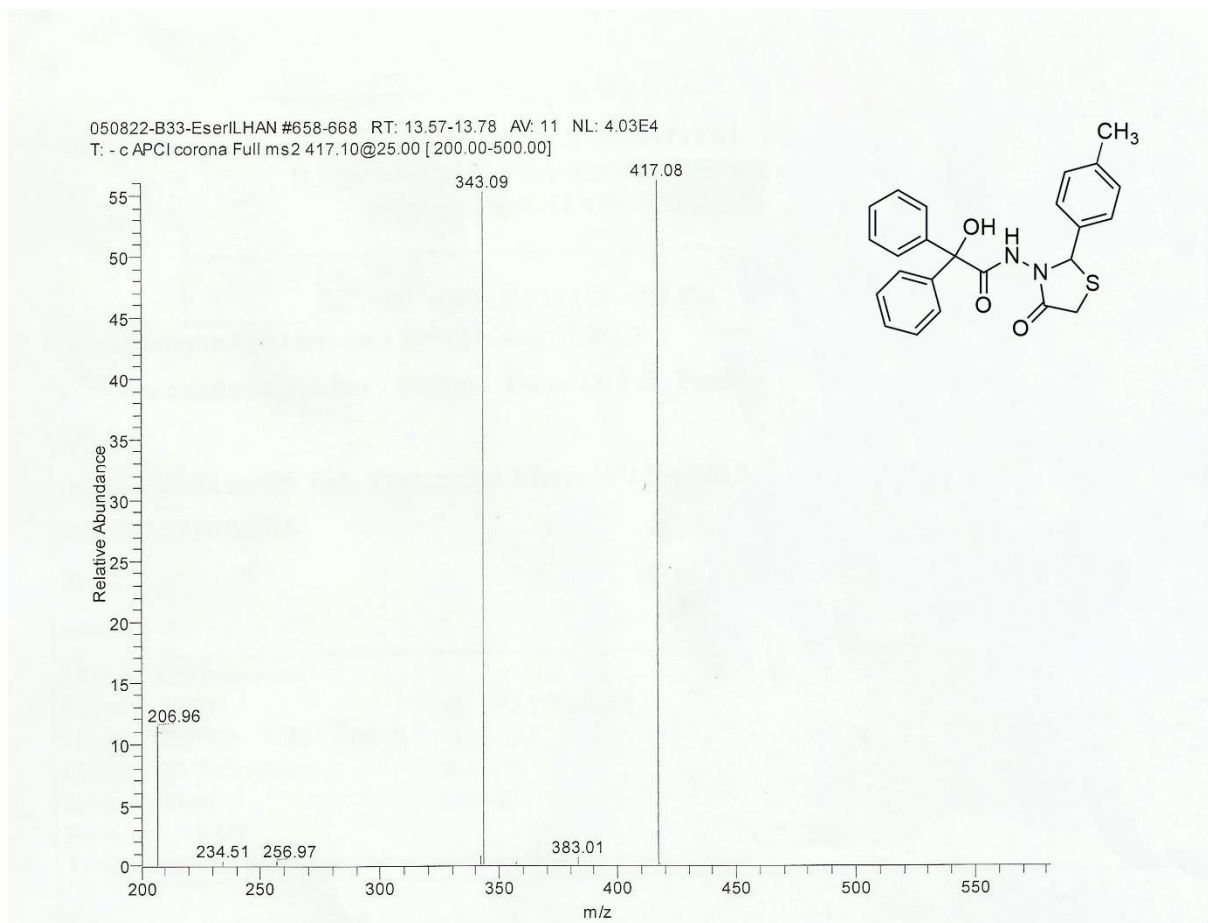


Figure S8: MS-APCI(-) (150 eV, m/z, %) Spectrum of Compound **3c**

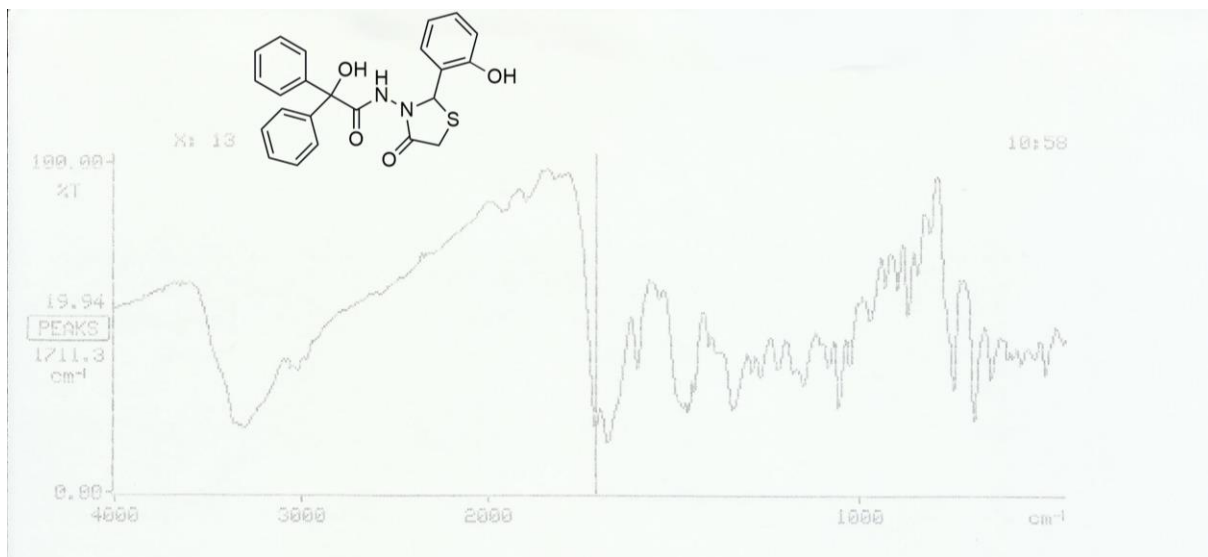


Figure S9: IR (KBr) Spectrum of Compound **3d**

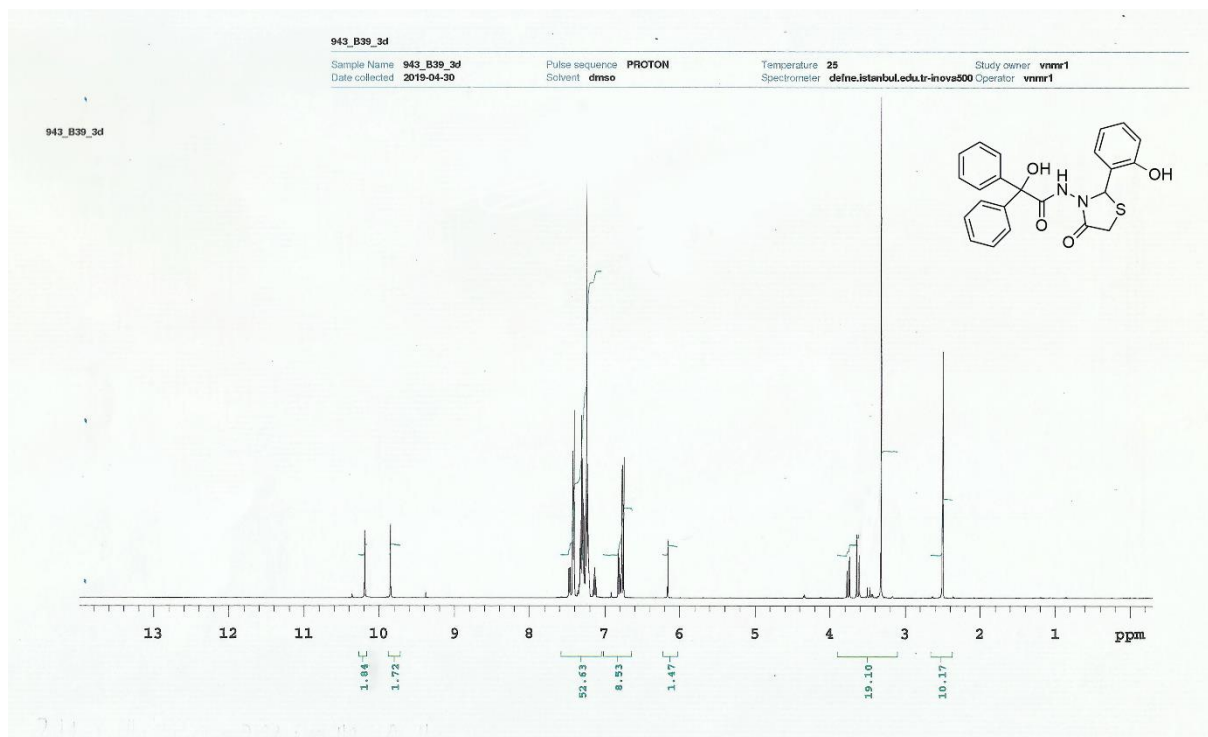


Figure S10: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **3d**

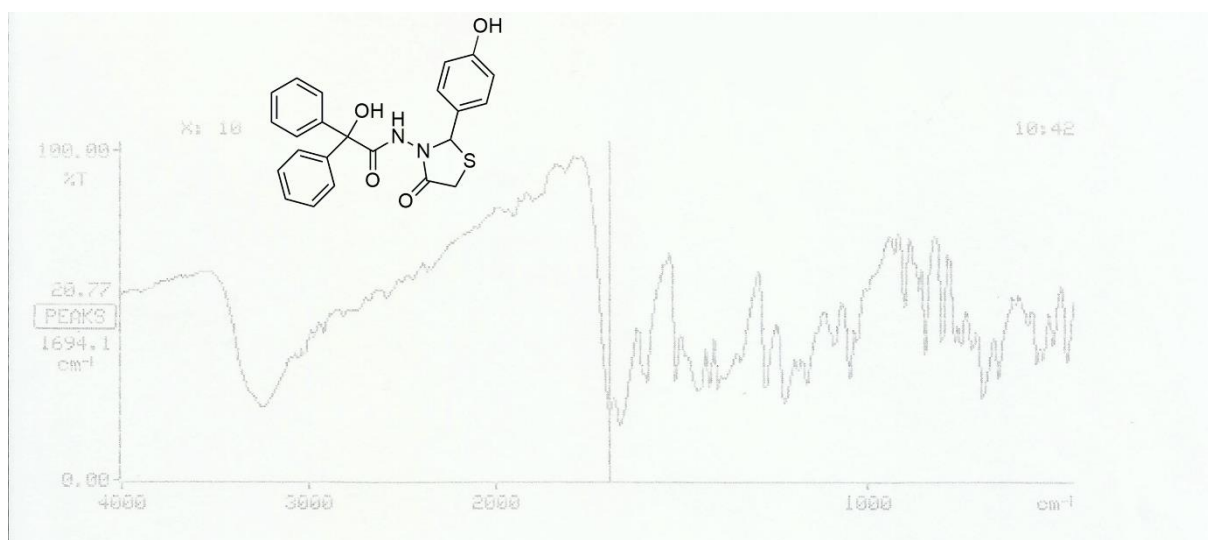


Figure S11: IR (KBr) Spectrum of Compound **3e**

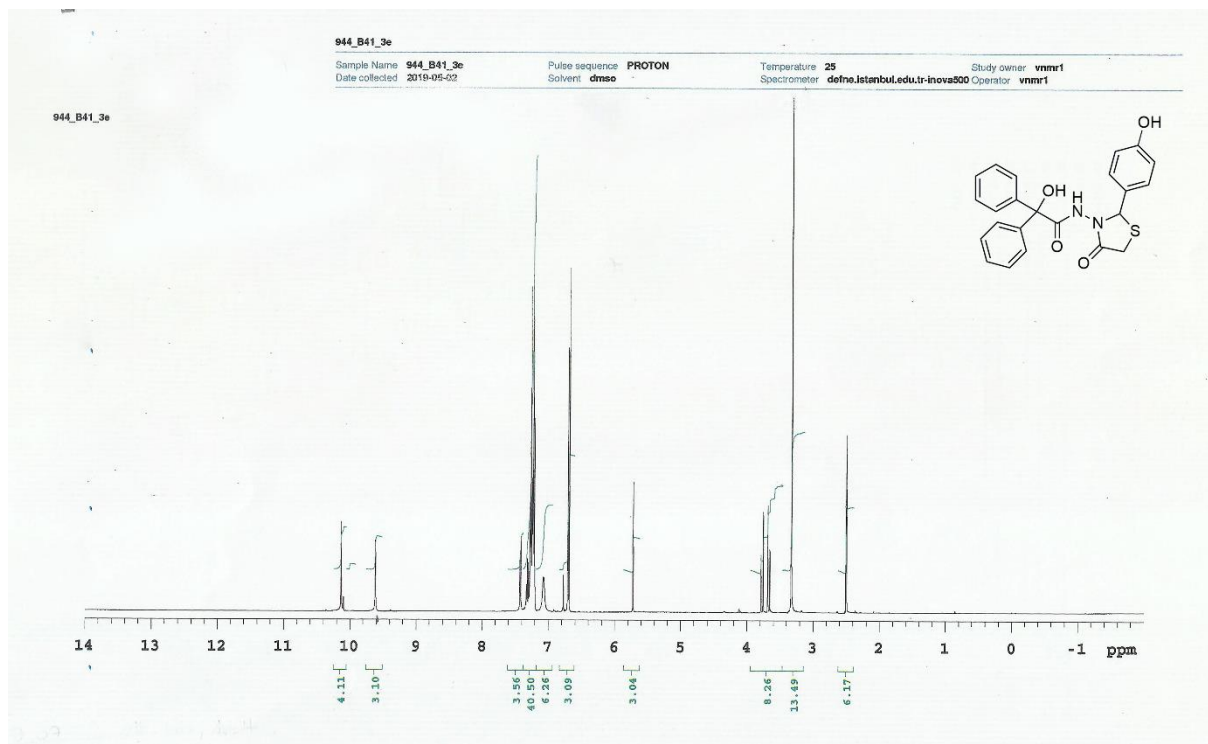


Figure S12: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **3e**

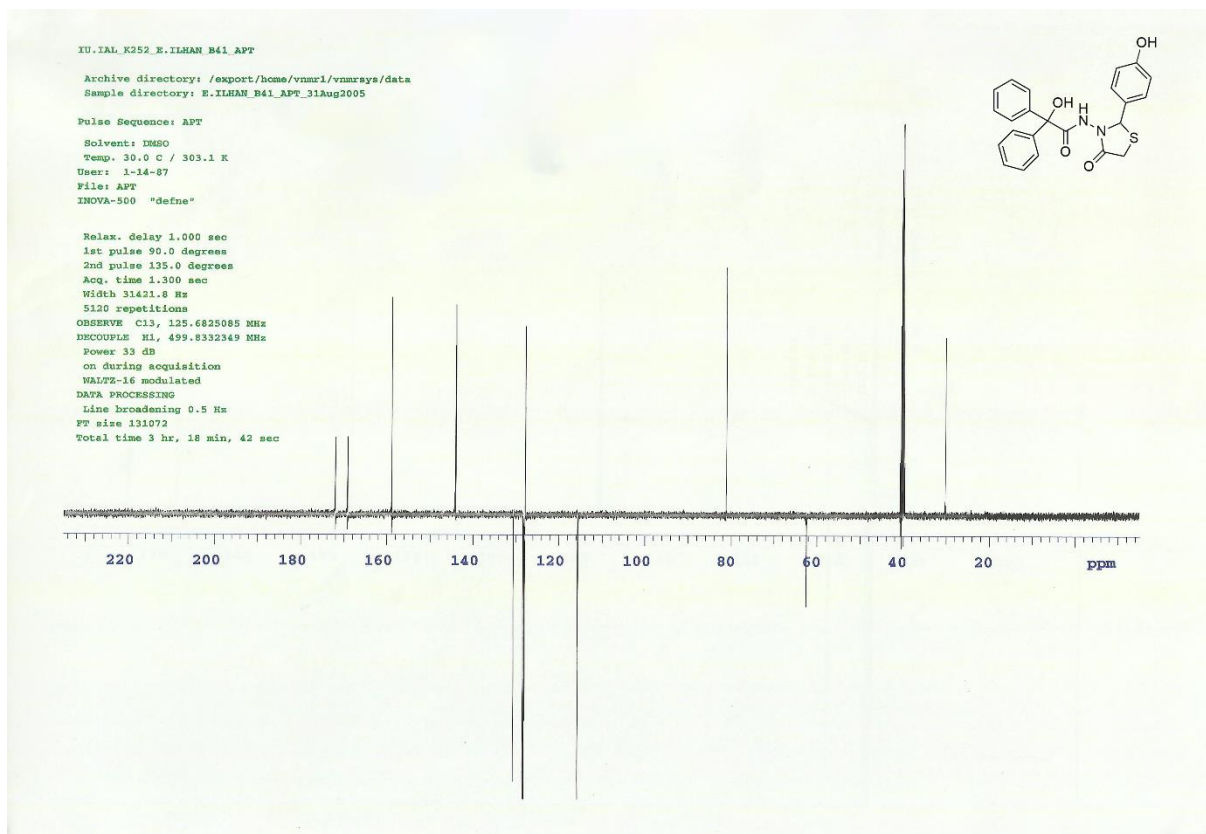


Figure S13: ^{13}C -NMR (125.6 MHz, APT (decoupled)) Spectrum of Compound **3e**

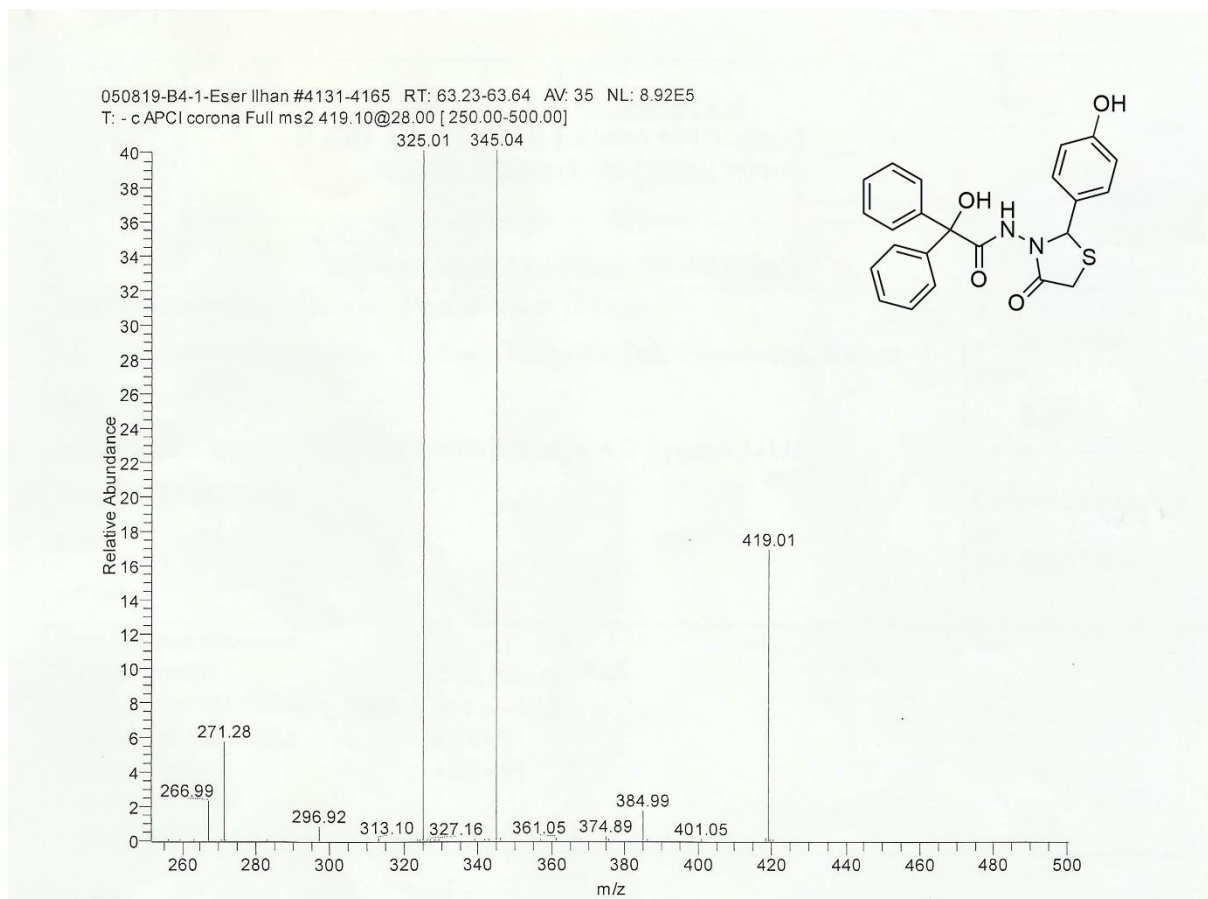


Figure S14: MS-APCI(-) (150 eV, m/z, %) Spectrum of Compound **3e**

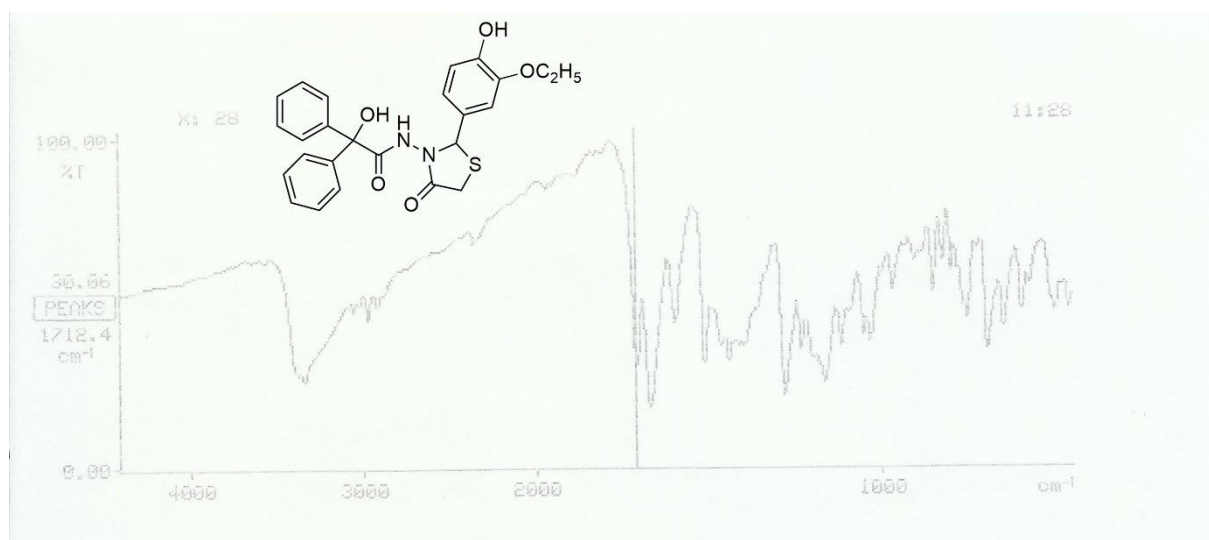


Figure S15: IR (KBr) Spectrum of Compound **3f**

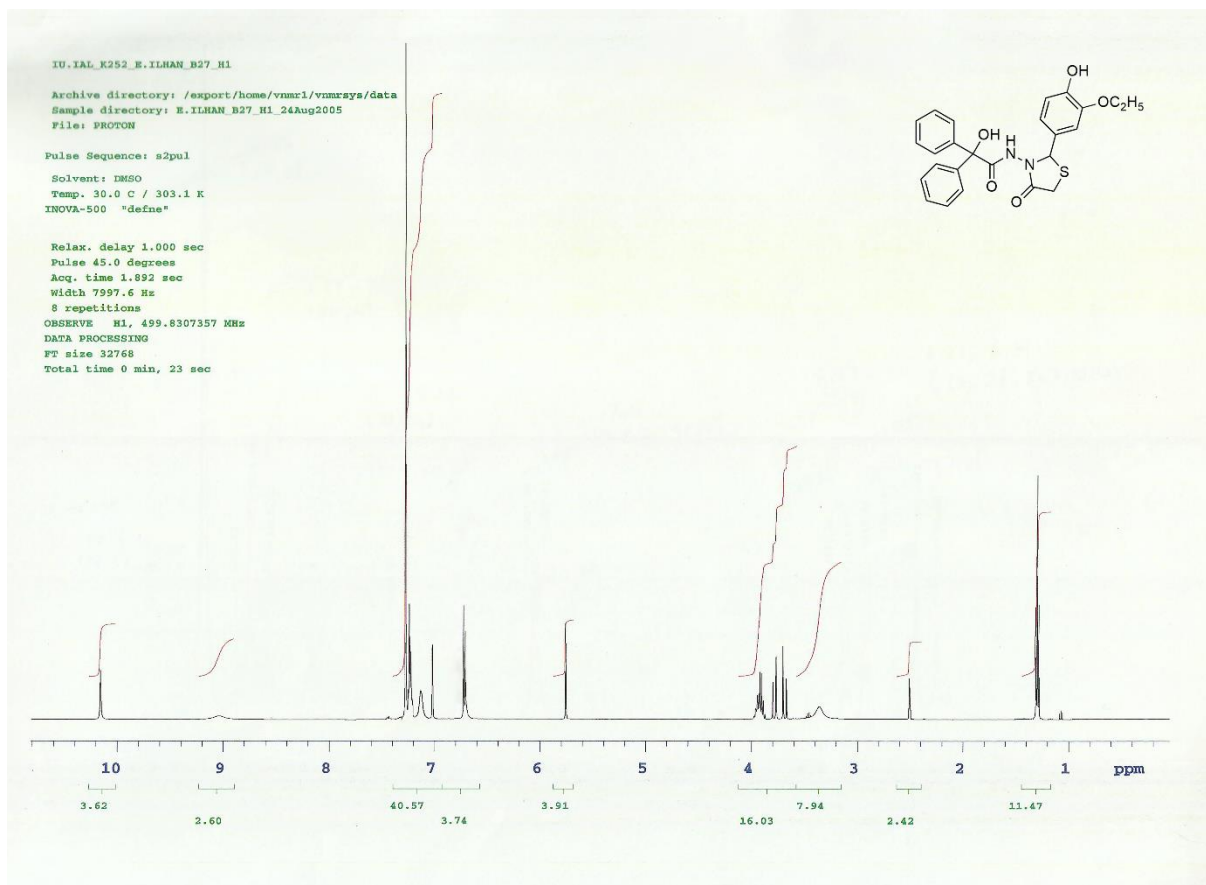


Figure S16: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **3f**

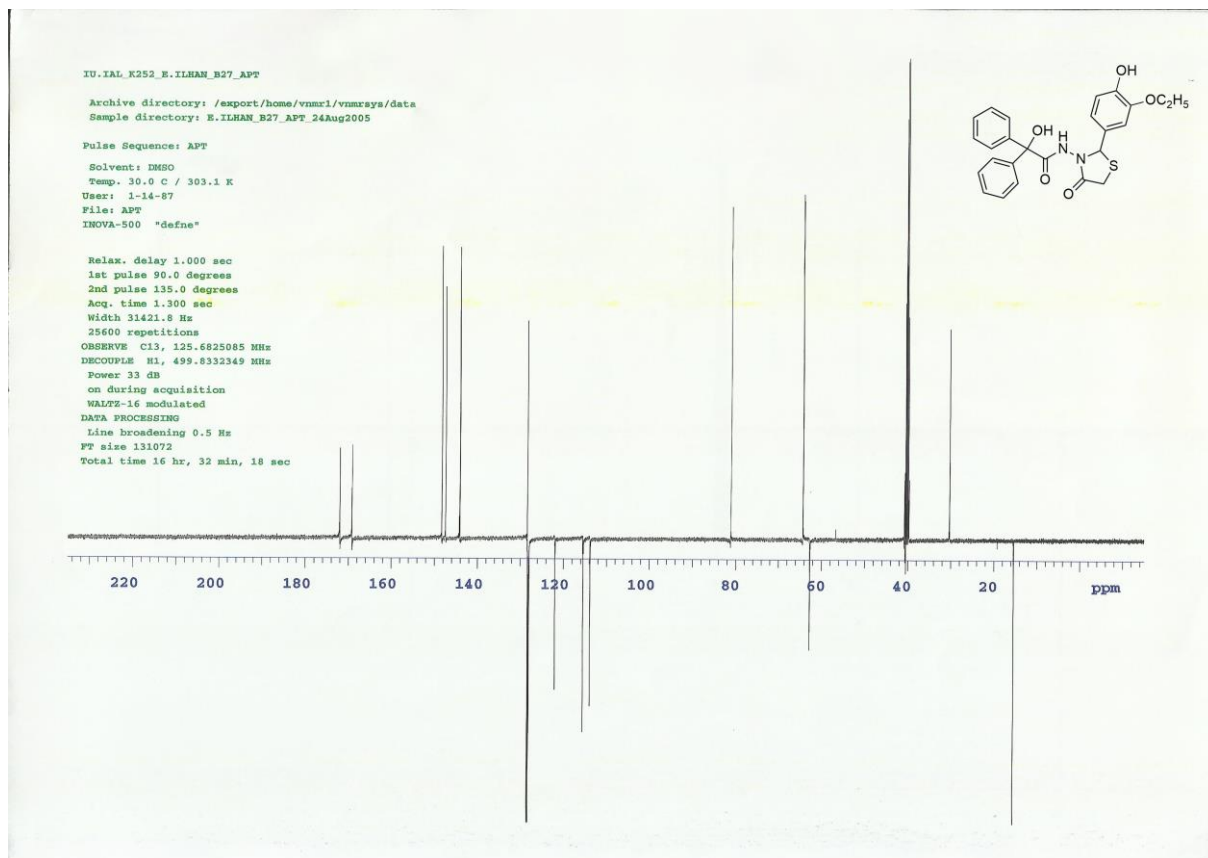


Figure S17: ^{13}C -NMR (125.6 MHz, APT (decoupled)) Spectrum of Compound **3f**

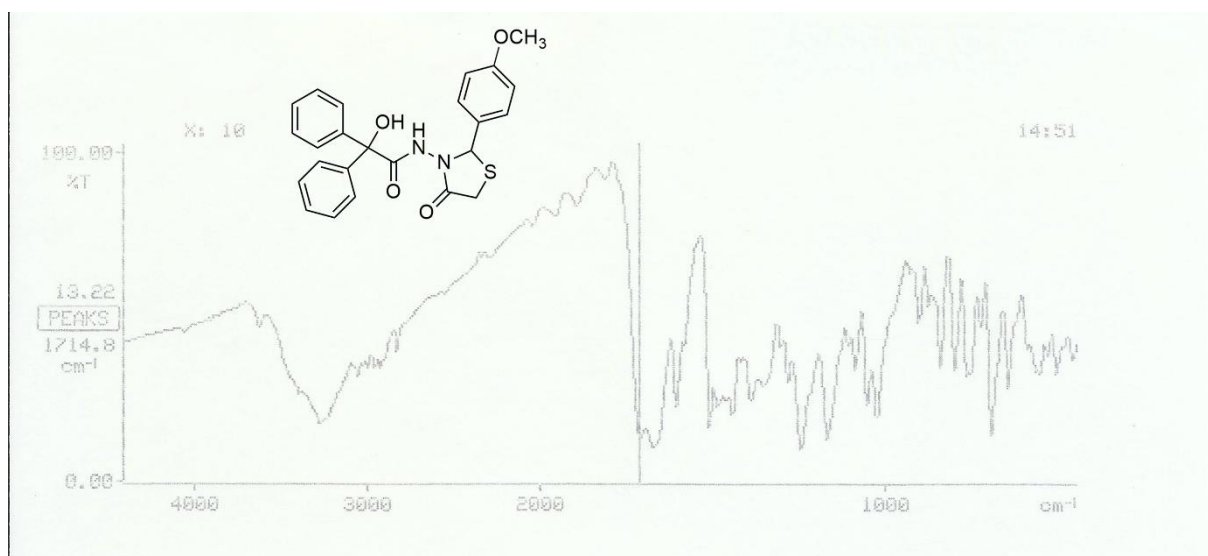


Figure S18: IR (KBr) Spectrum of Compound **3g**

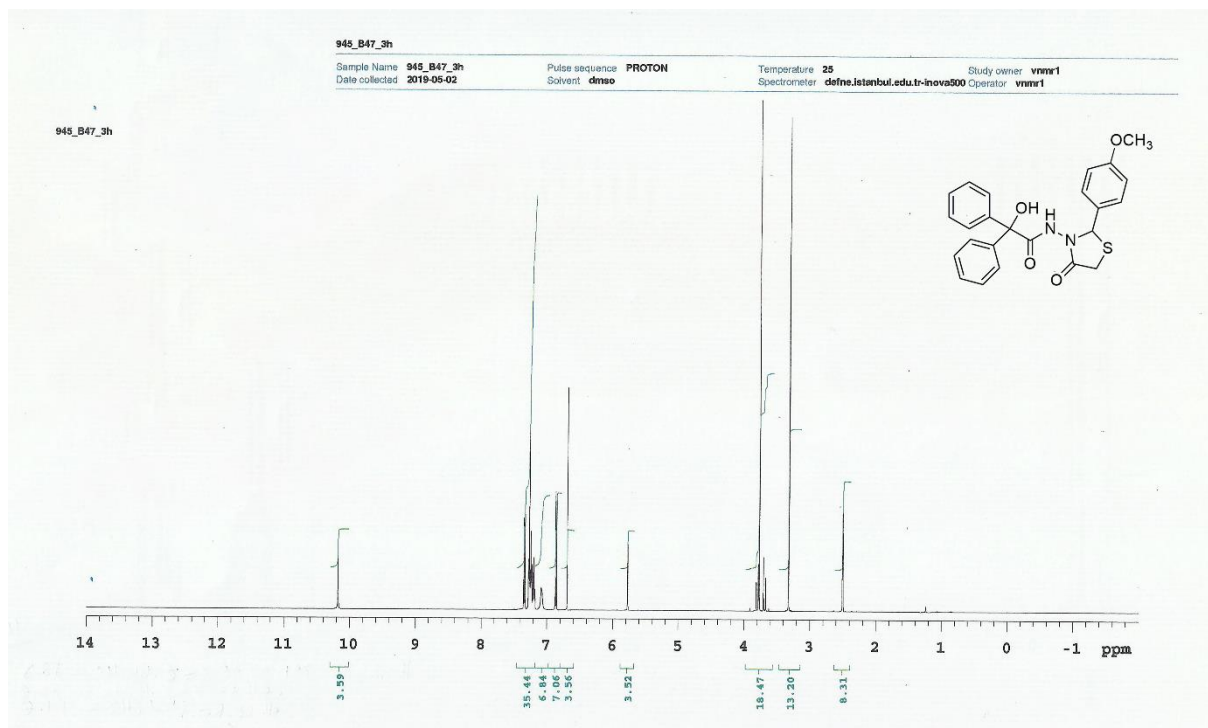


Figure S19: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **3g**

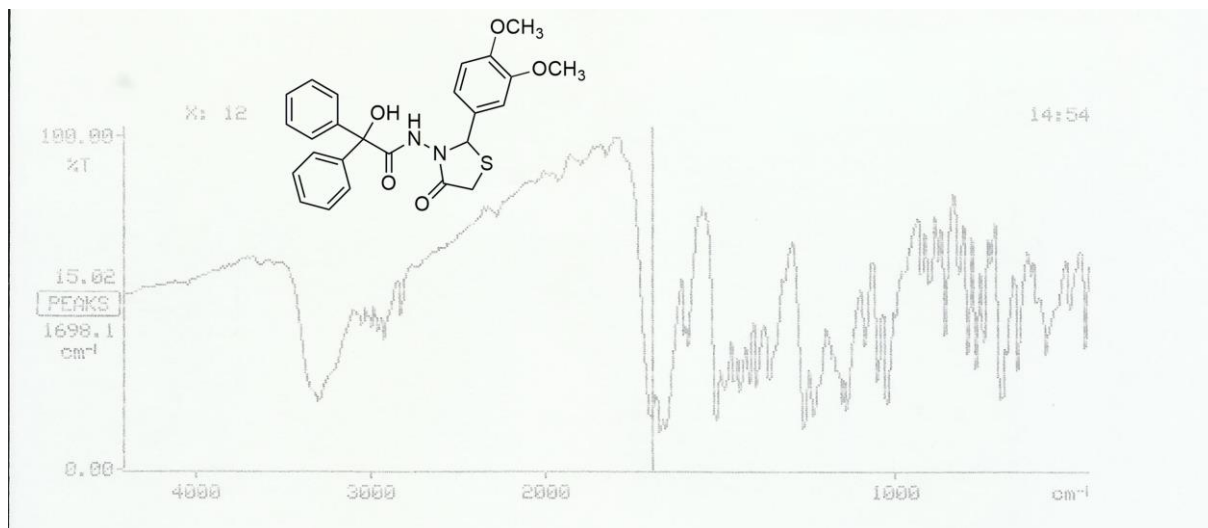


Figure S20: IR (KBr) Spectrum of Compound **3h**

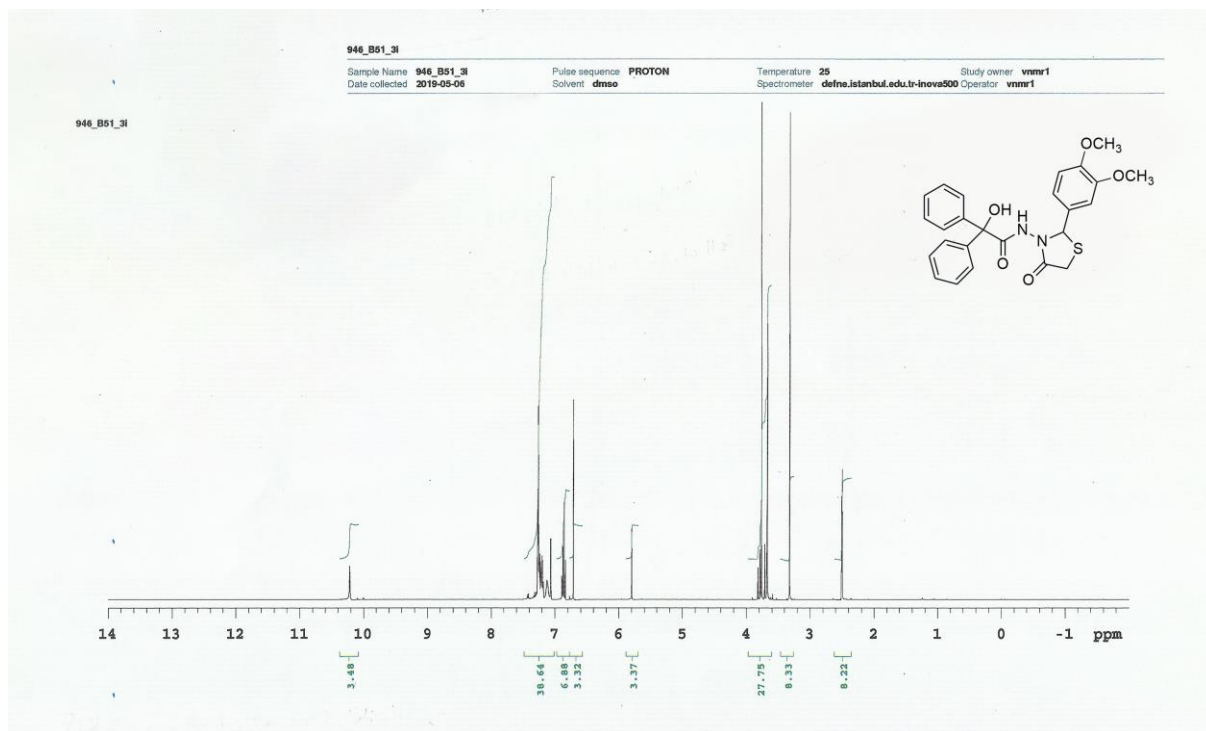


Figure S21: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **3h**

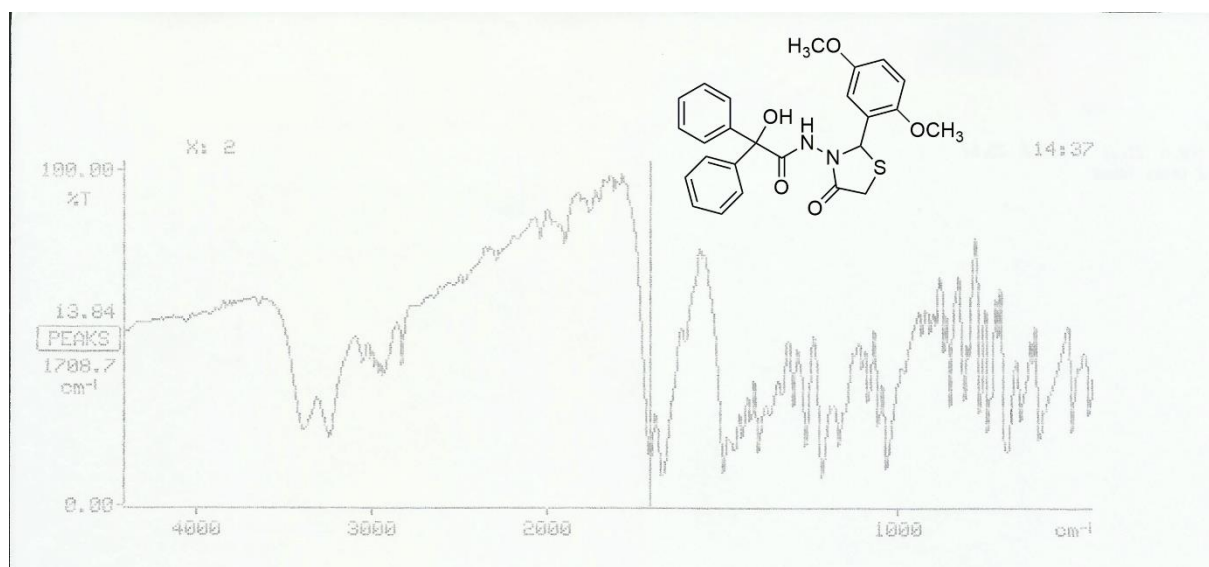


Figure S22: IR (KBr) Spectrum of Compound **3i**

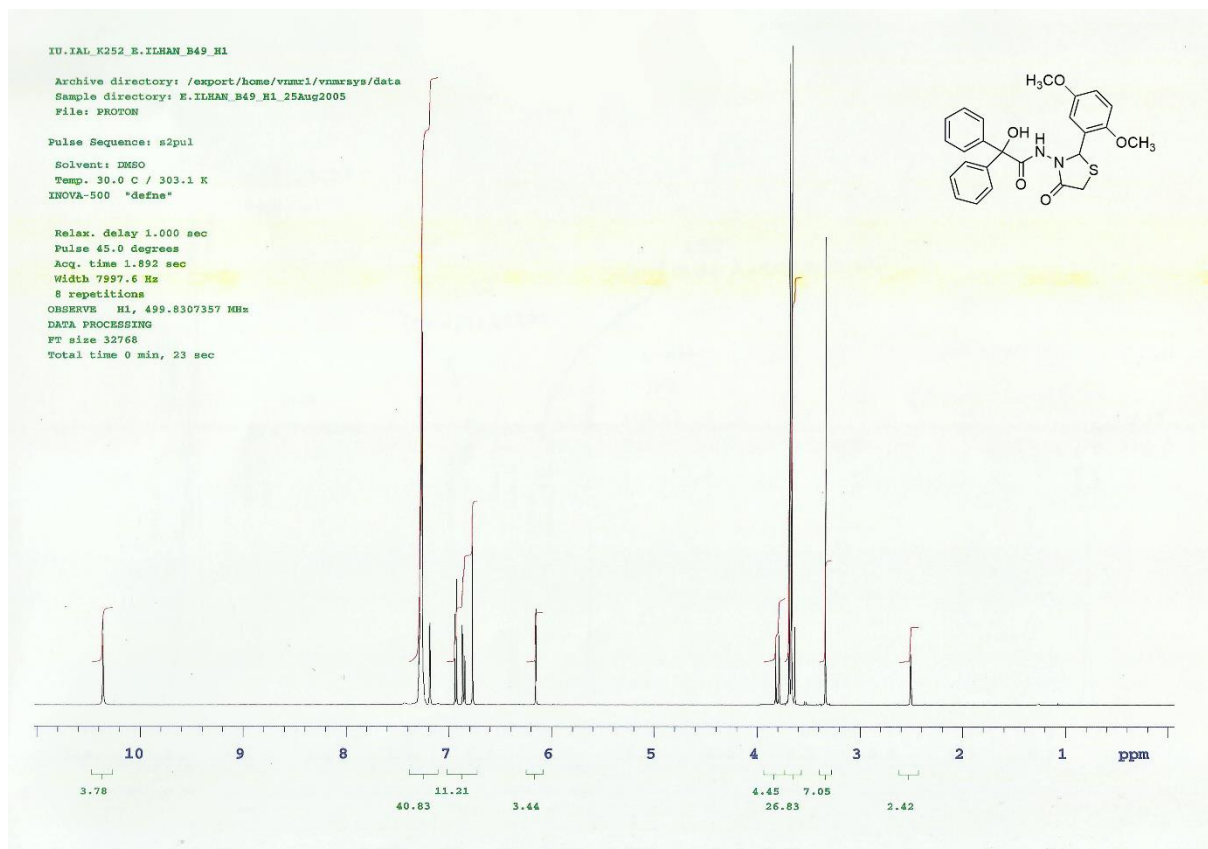


Figure S23: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **3i**

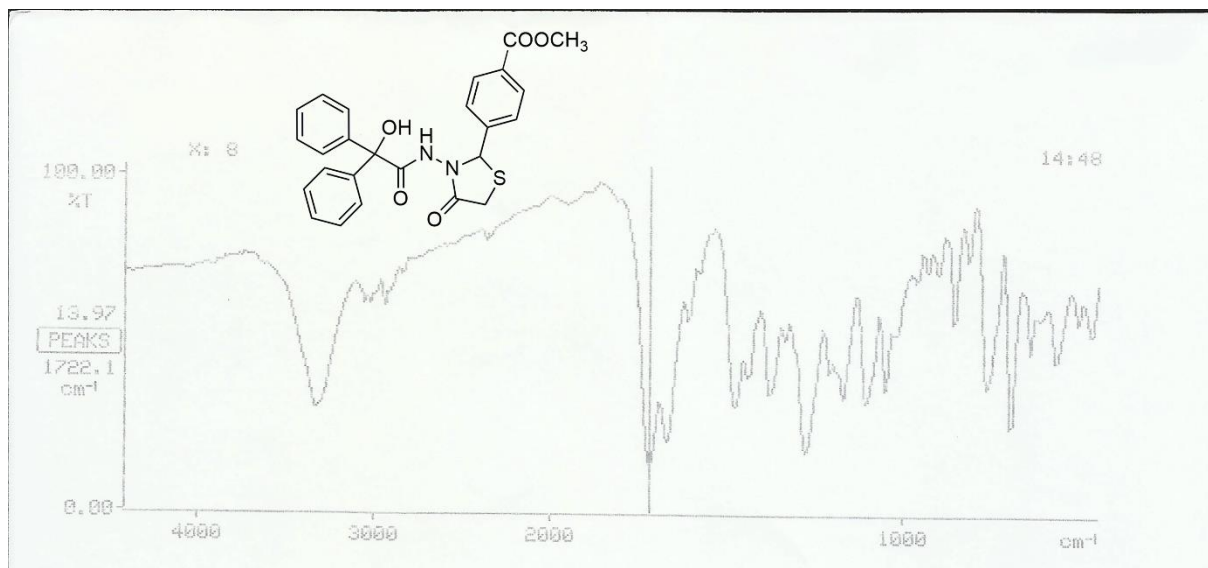


Figure S24: IR (KBr) Spectrum of Compound 3j

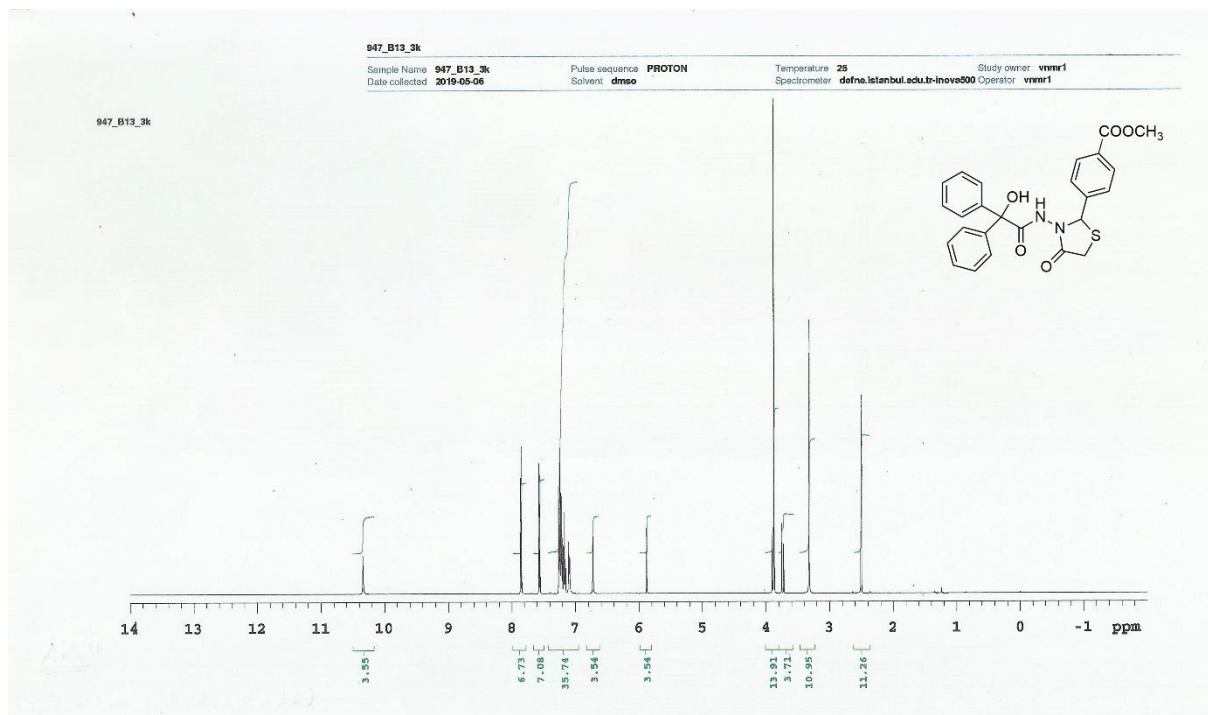


Figure S25: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **3j**

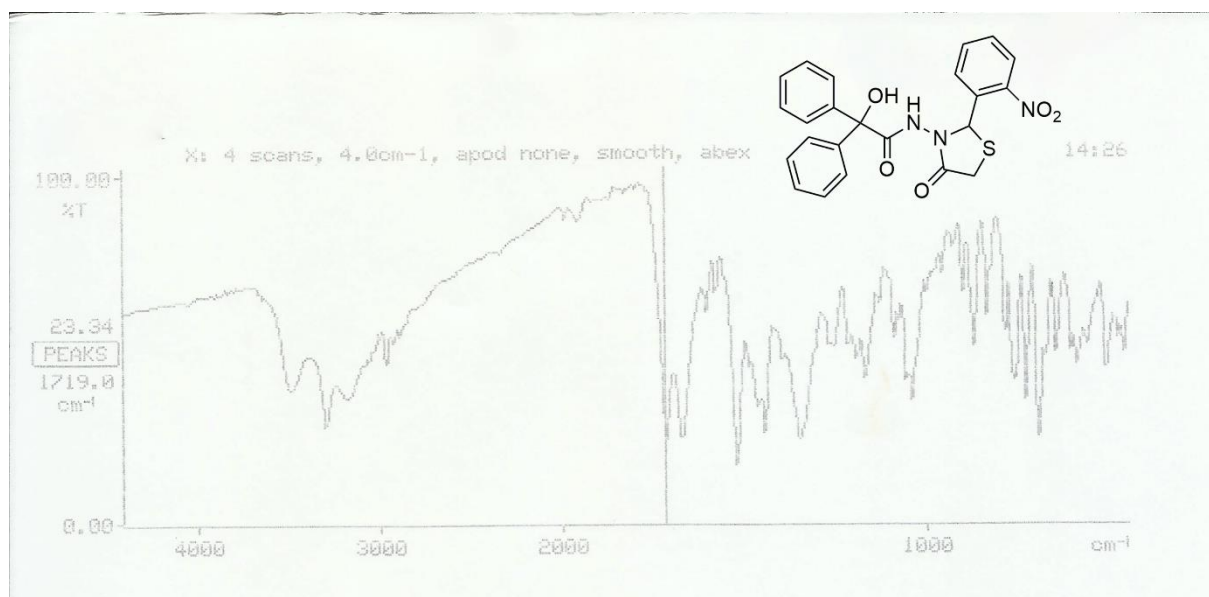


Figure S26: IR (KBr) Spectrum of Compound **3k**

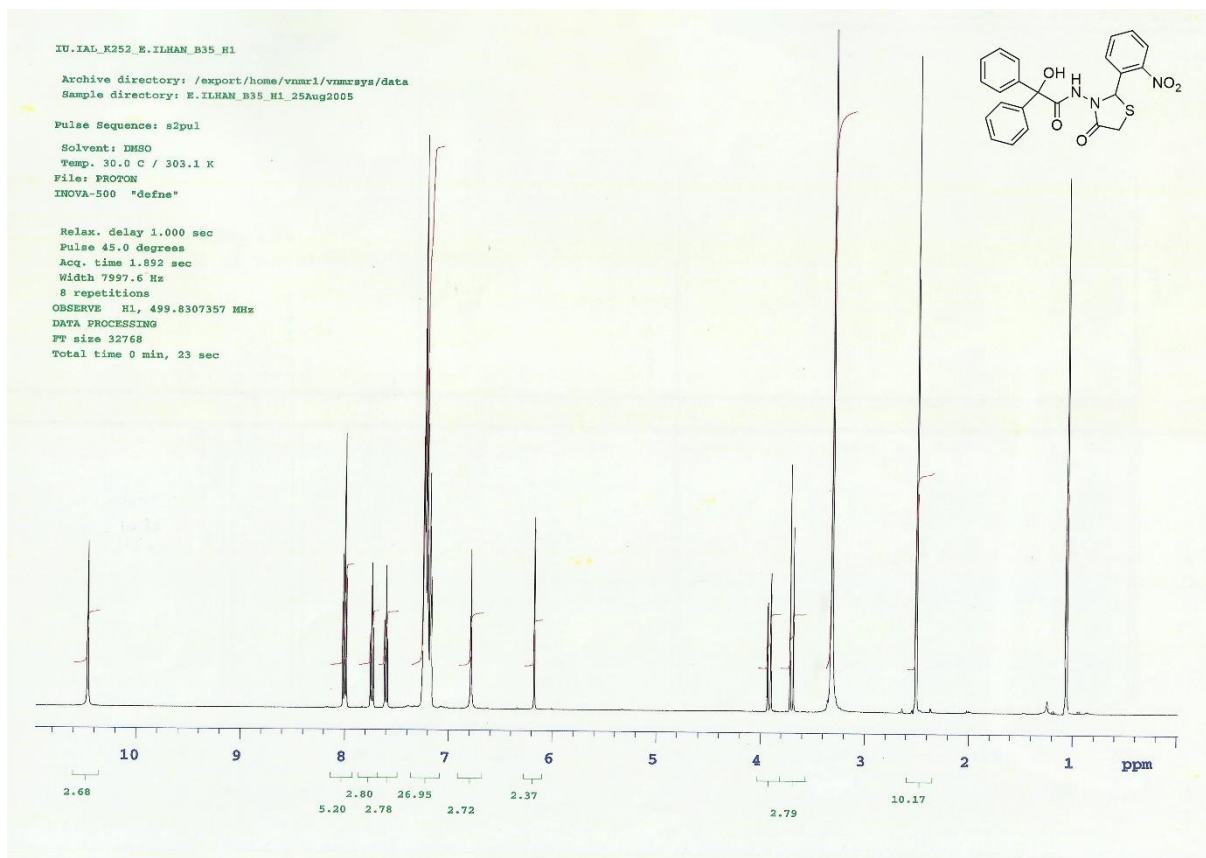


Figure S27: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **3k**

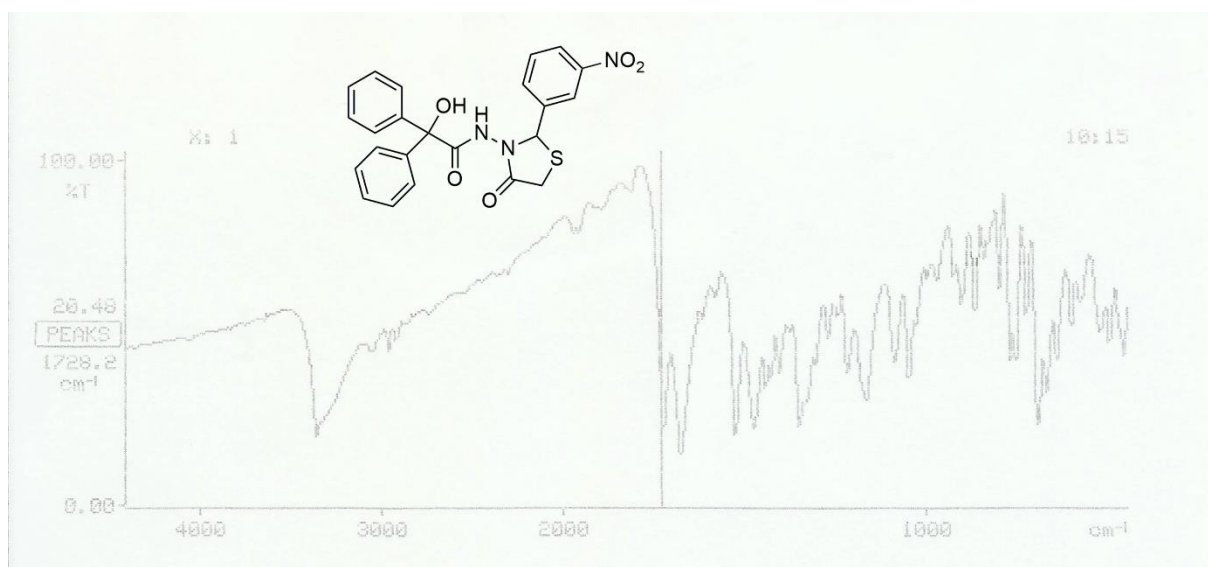


Figure S28: IR (KBr) Spectrum of Compound 31

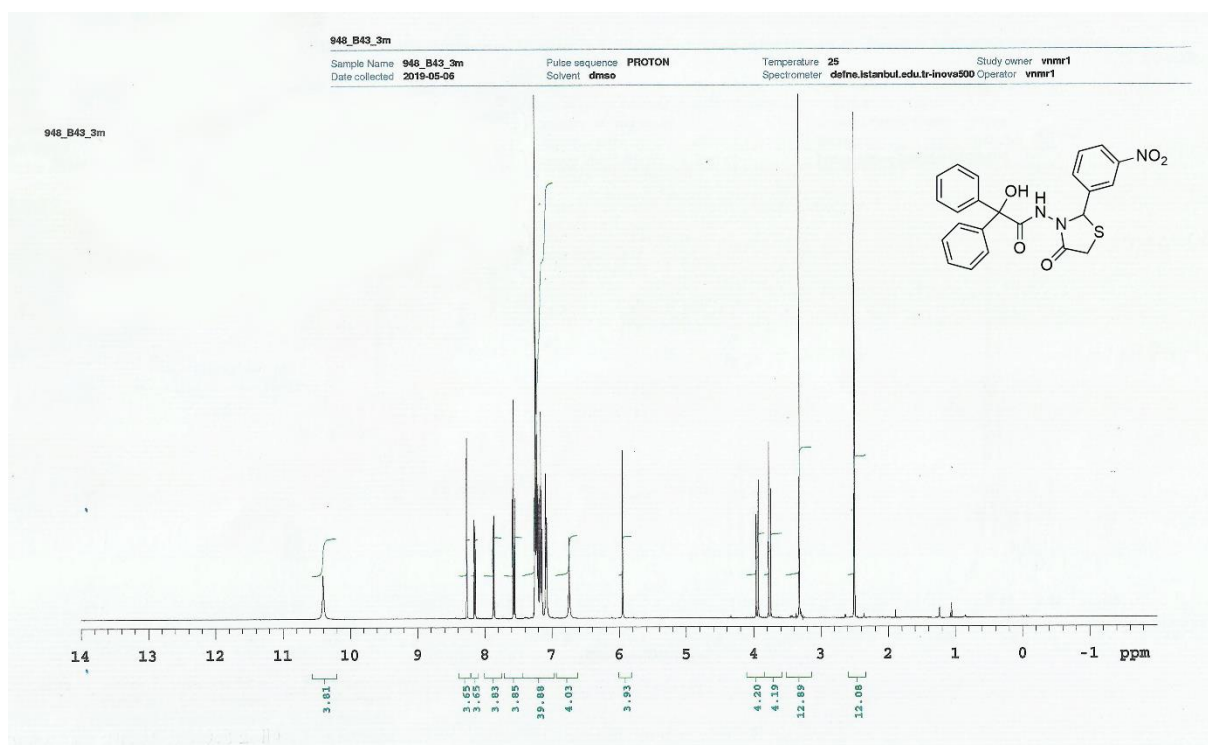


Figure S29: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **31**

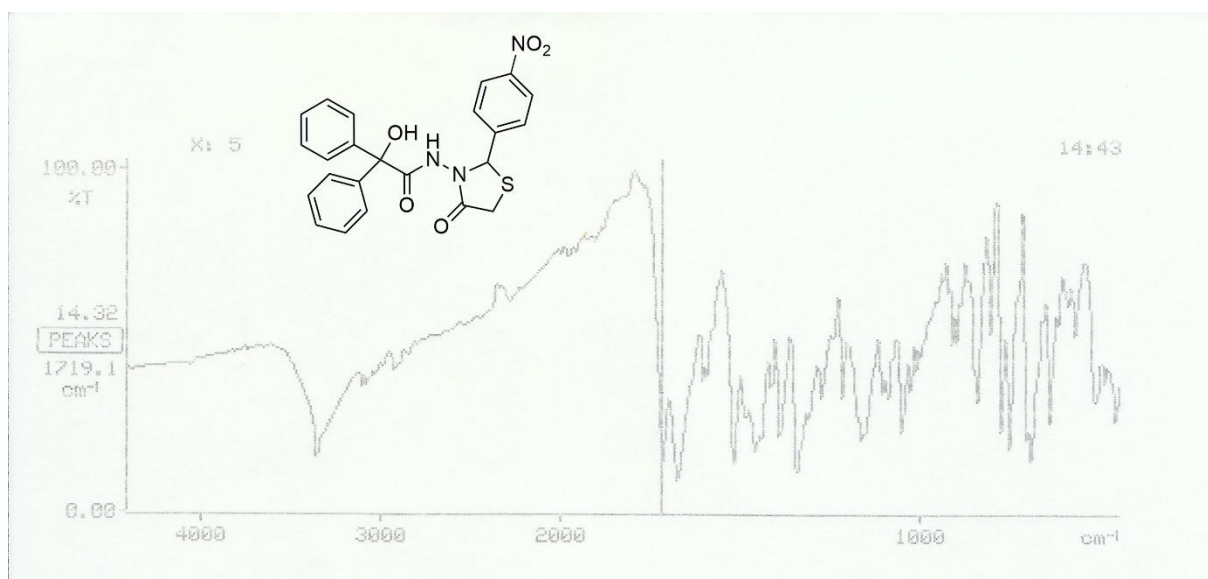


Figure S30: IR (KBr) Spectrum of Compound **3m**

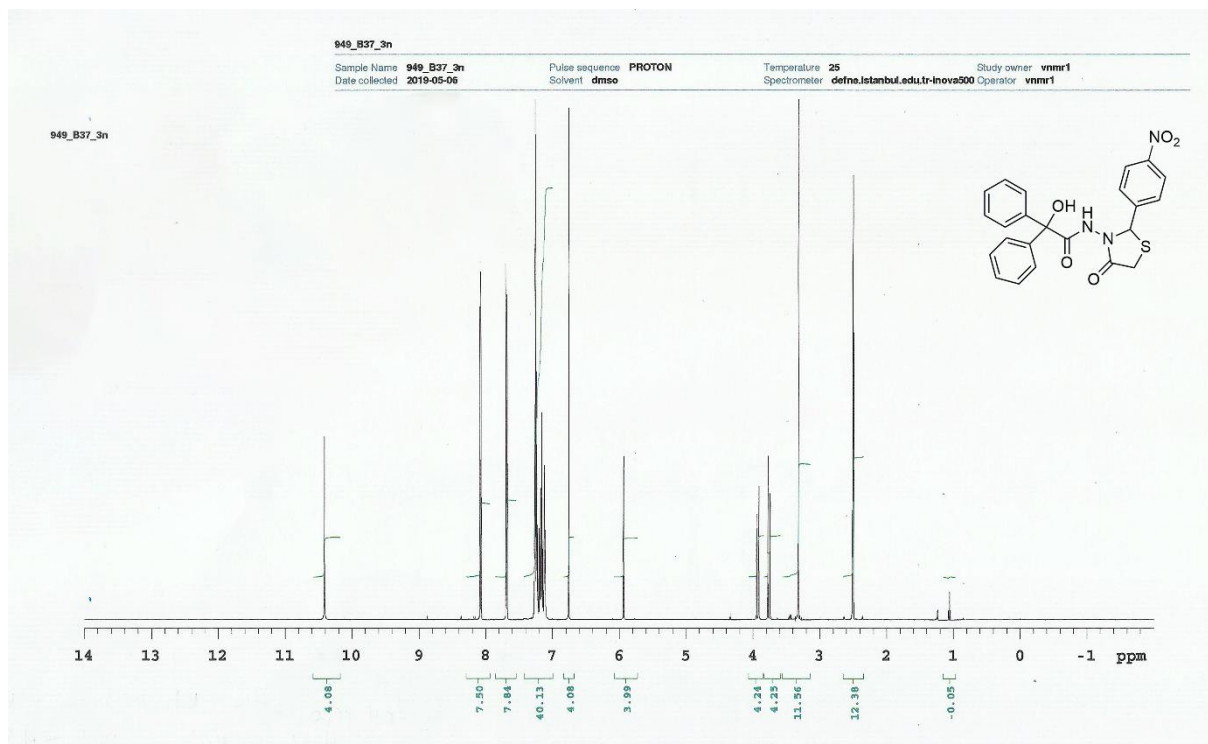


Figure S31: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **3m**

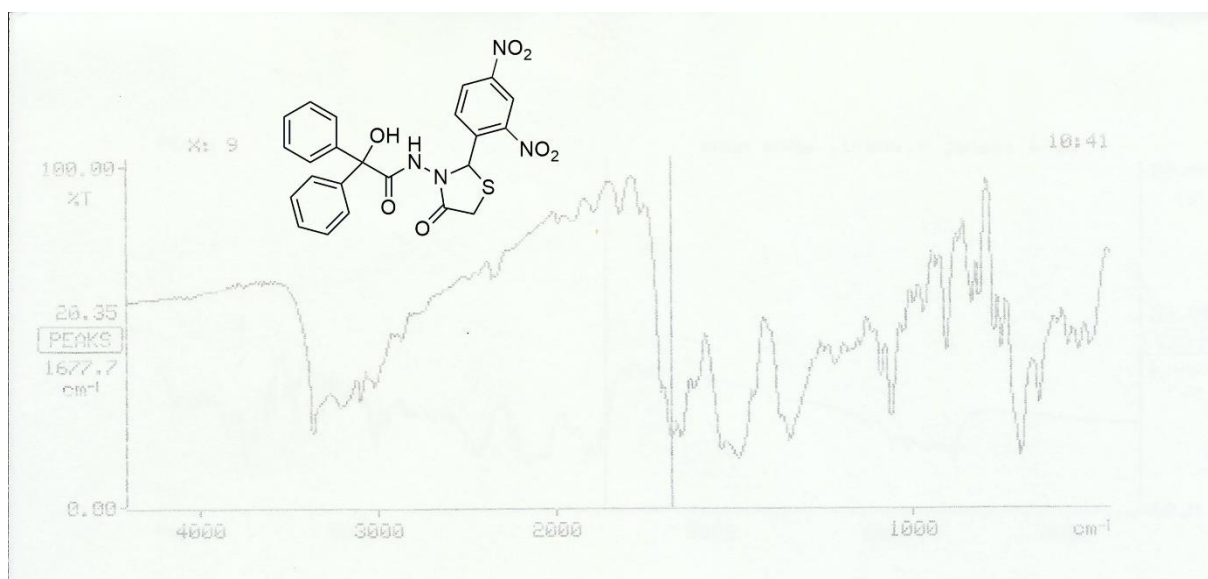


Figure S32: IR (KBr) Spectrum of Compound **3n**

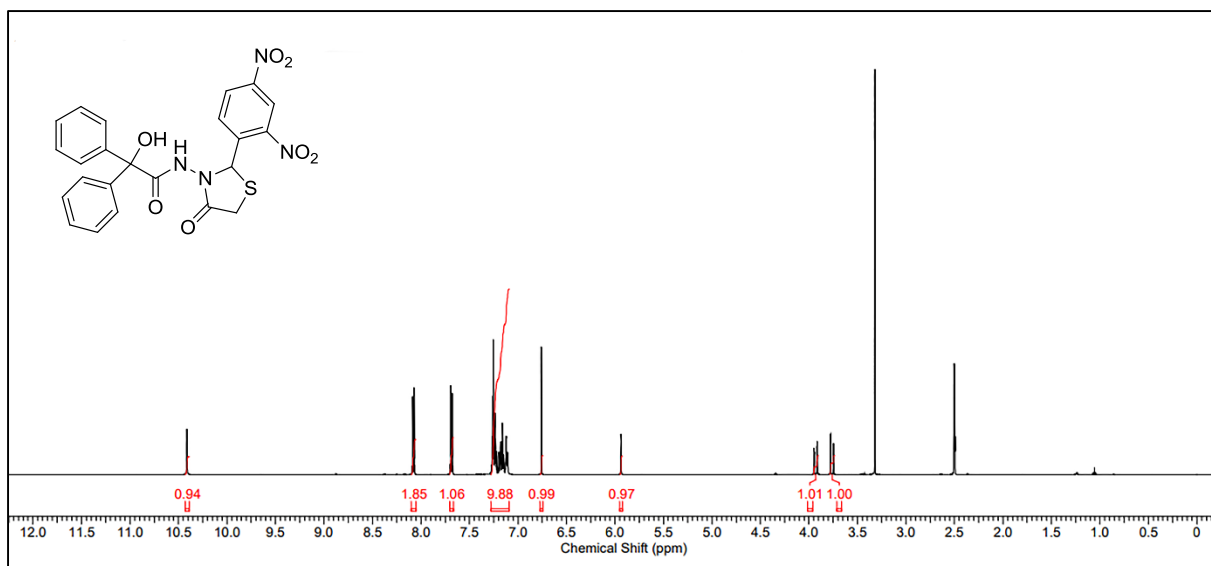


Figure S33: ¹H-NMR (500 MHz, DMSO-*d*₆) Spectrum of Compound 3n

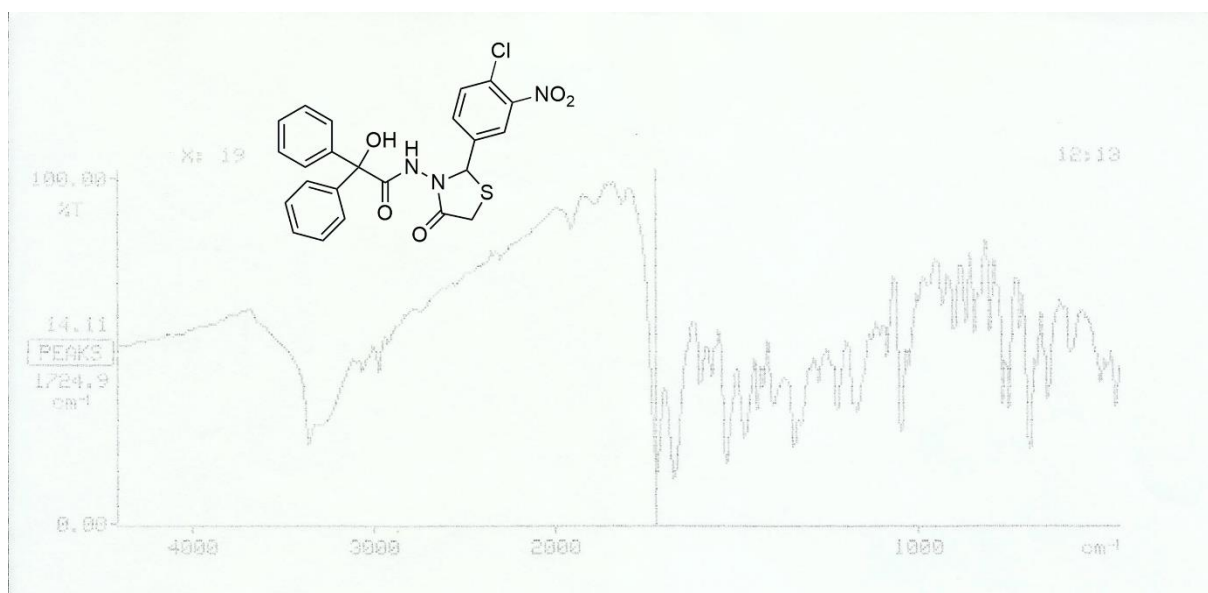


Figure S34: IR (KBr) Spectrum of Compound 30

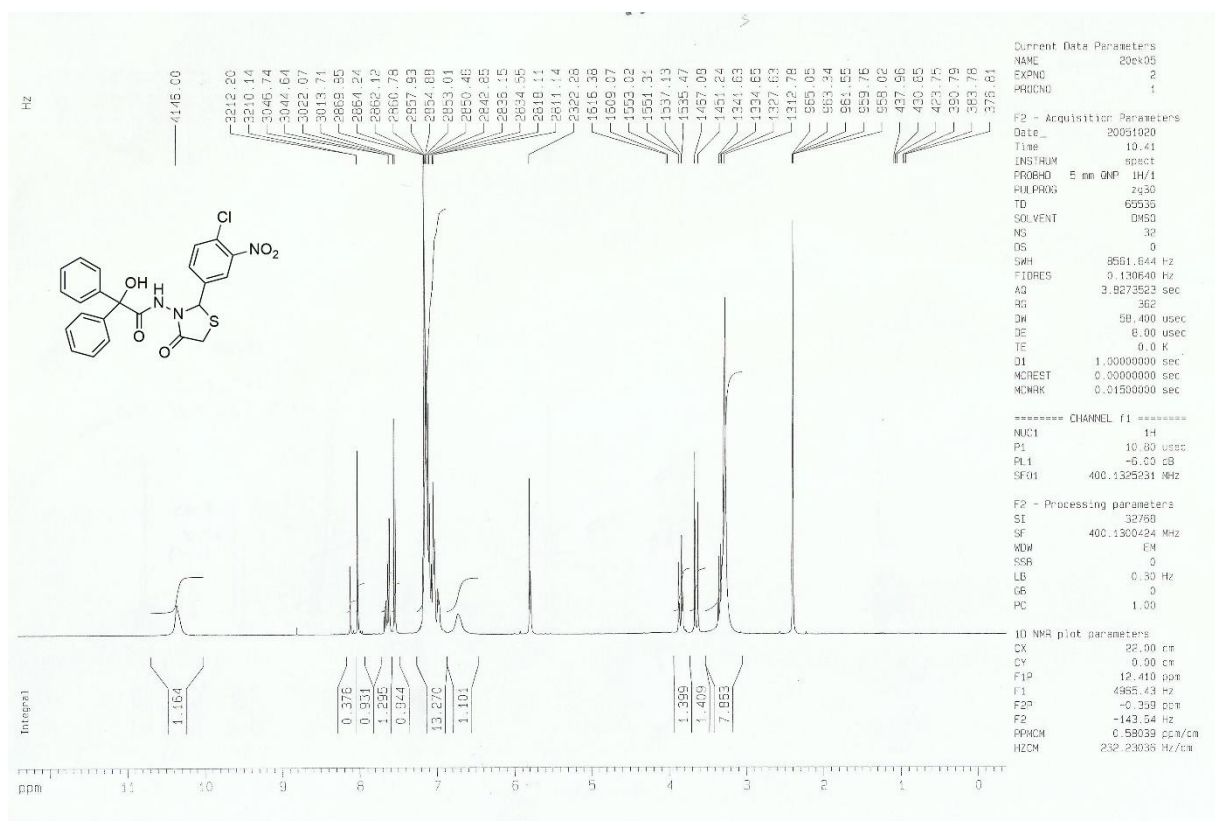


Figure S35: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound 3o

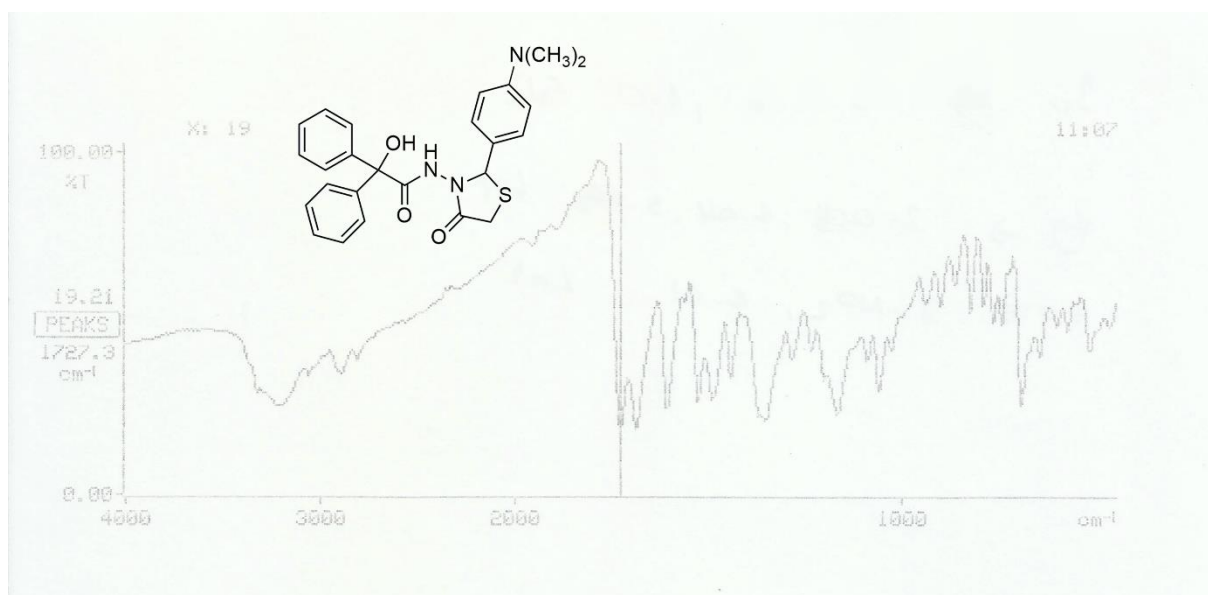


Figure S36: IR (KBr) Spectrum of Compound **3p**

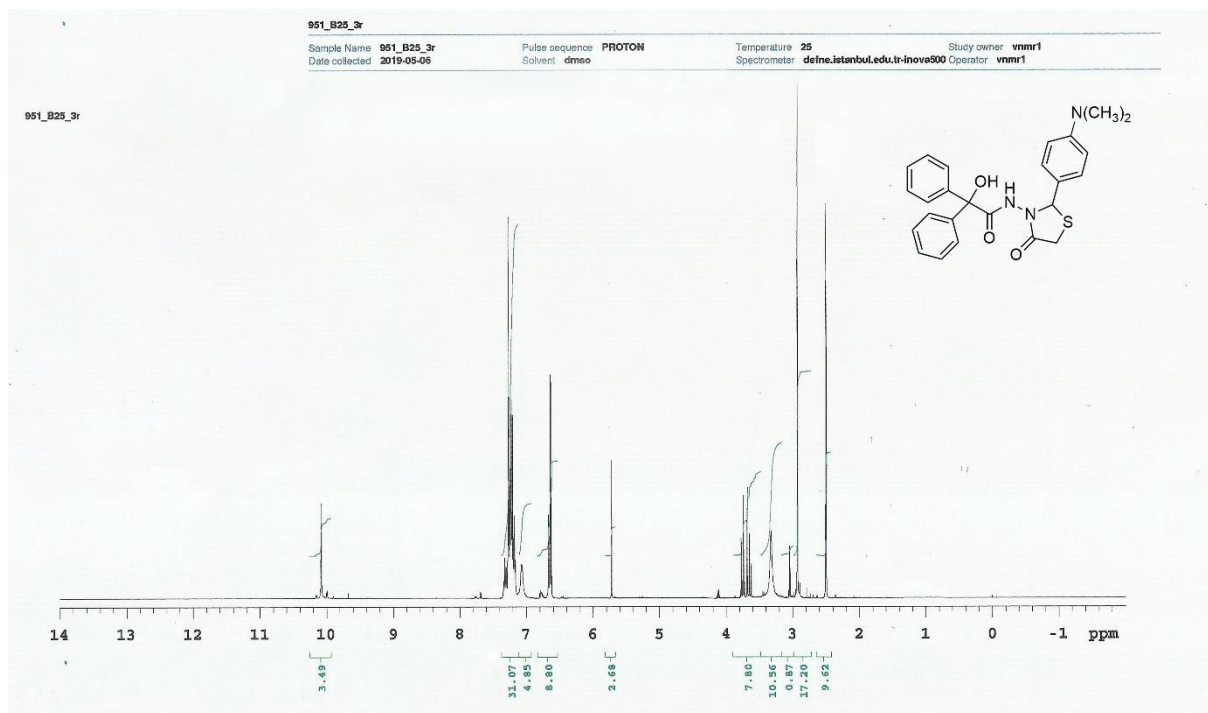


Figure S37: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **3p**

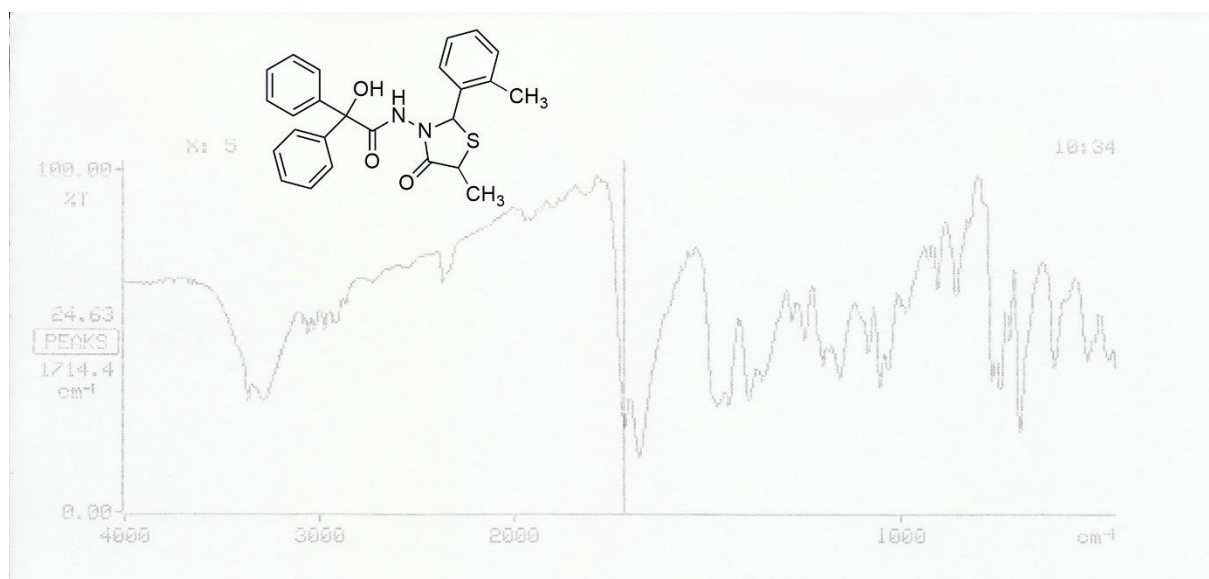


Figure S38: IR (KBr) Spectrum of Compound **4a**

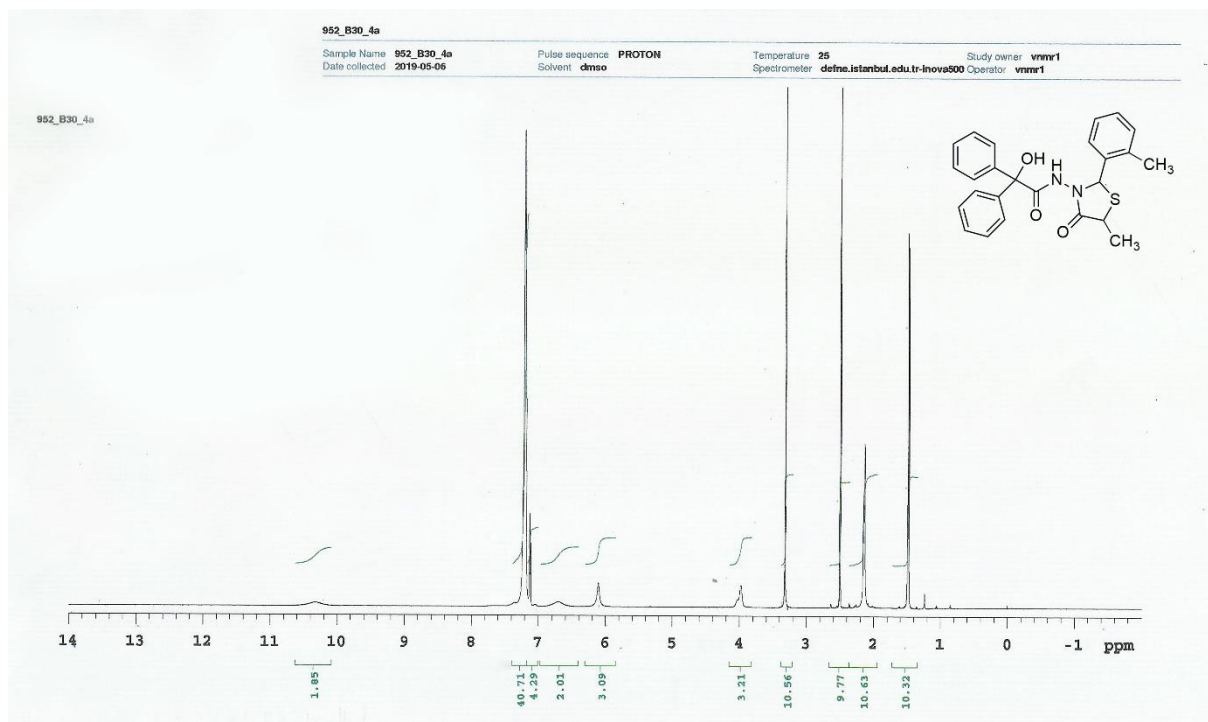


Figure S39: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **4a**

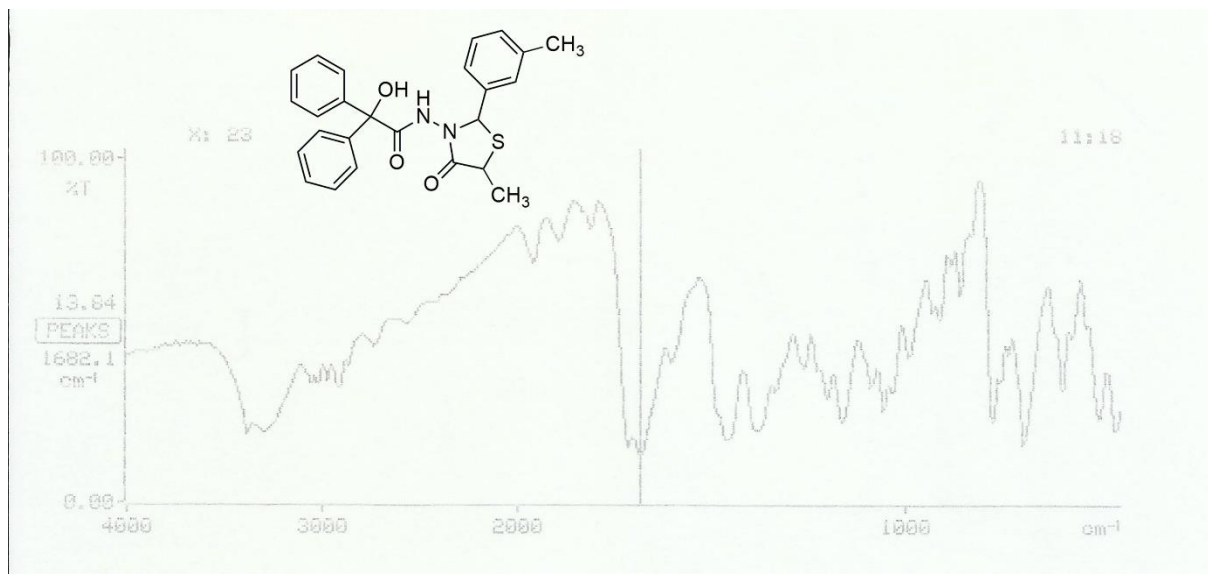


Figure S40: IR (KBr) Spectrum of Compound **4b**

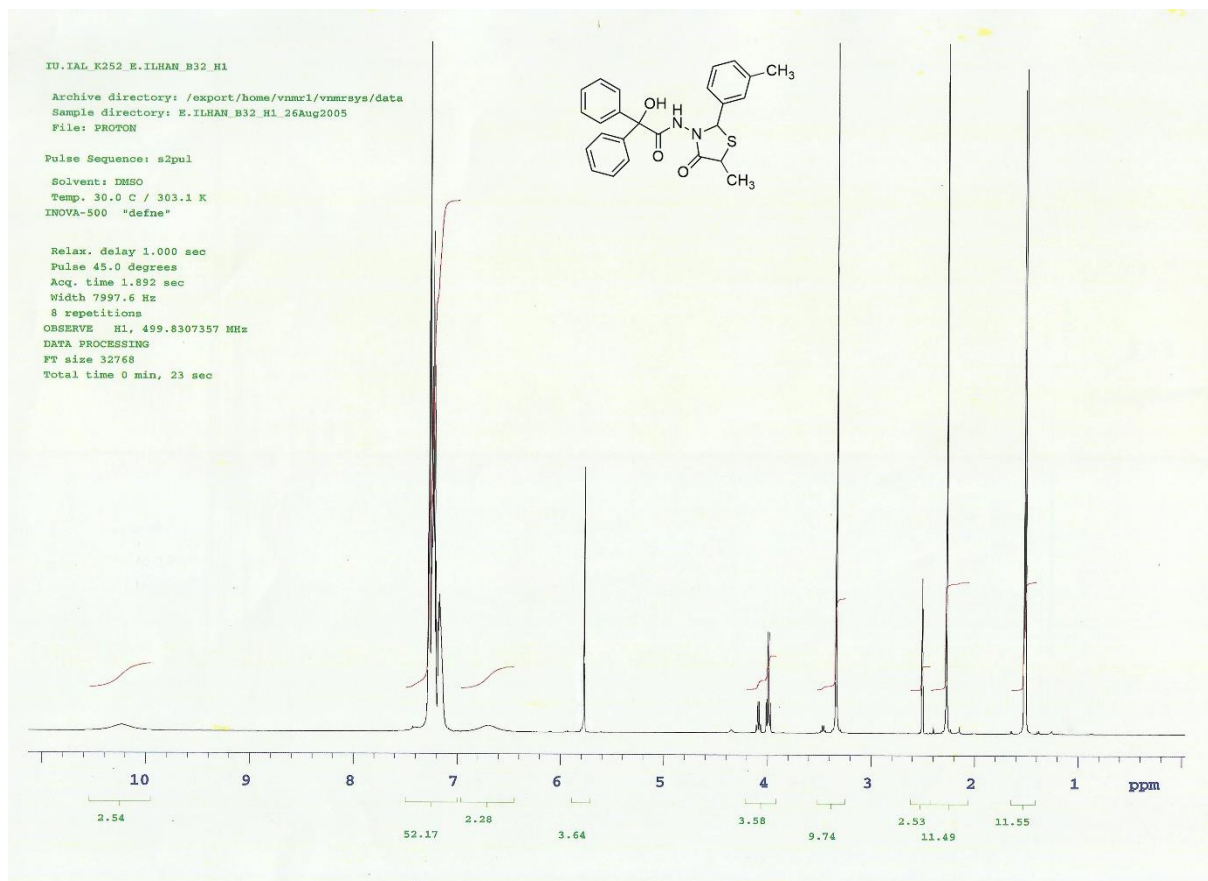


Figure S41: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **4b**

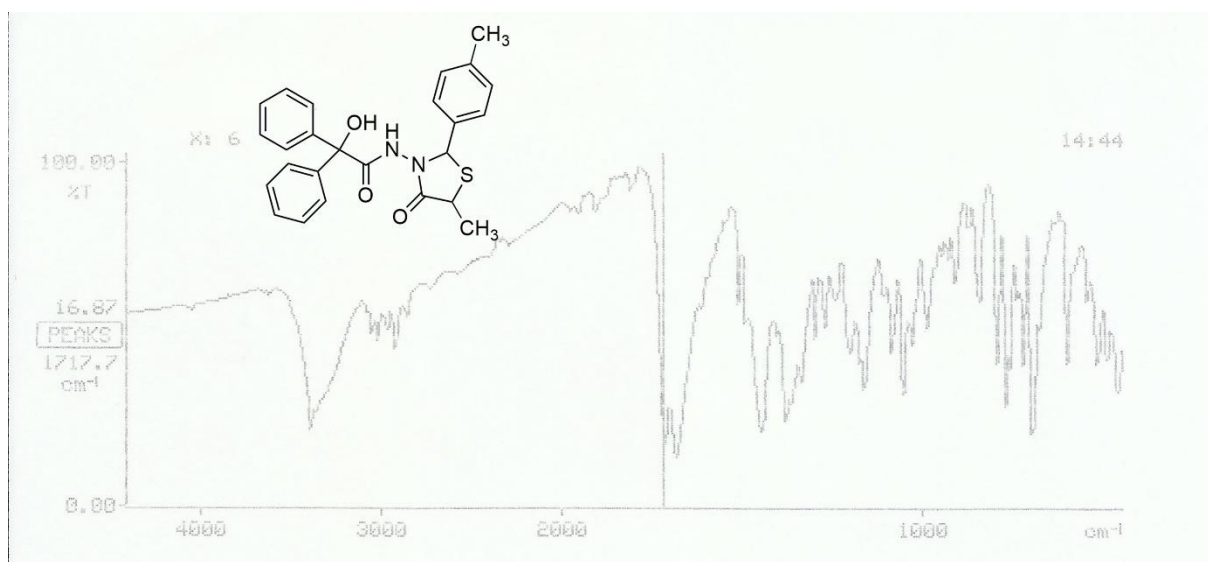


Figure S42: IR (KBr) Spectrum of Compound **4c**

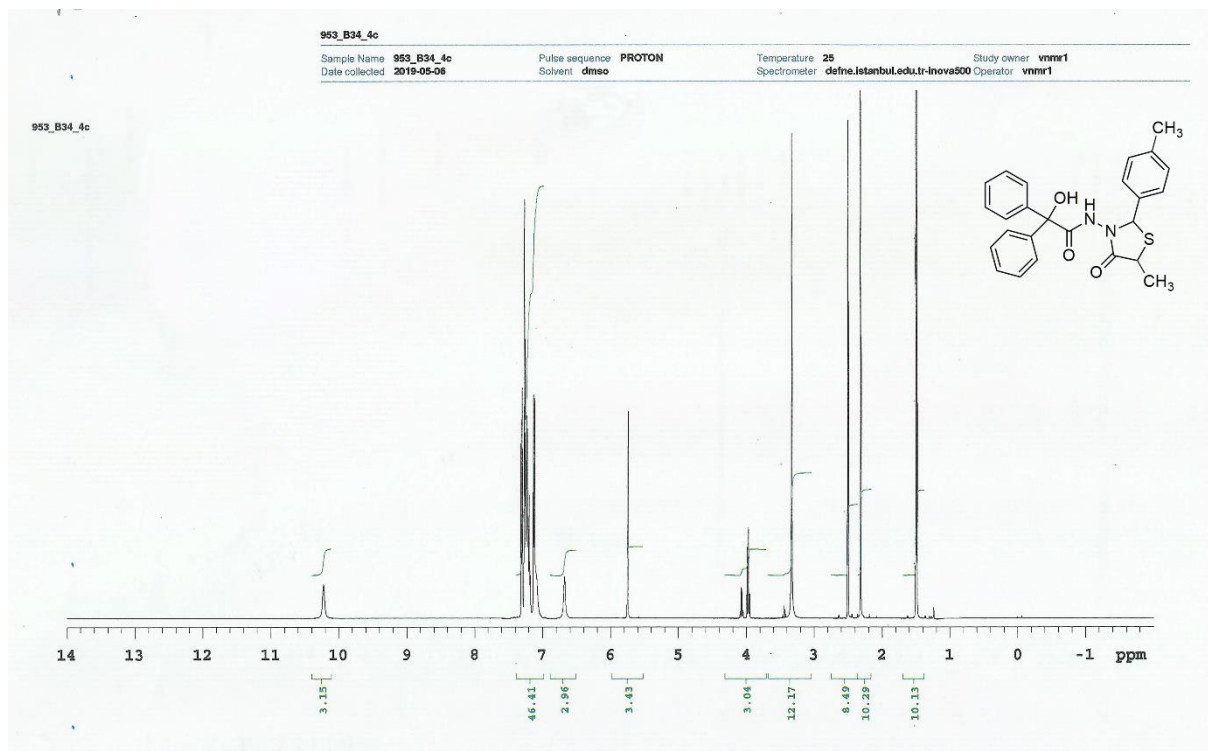


Figure S43: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **4c**

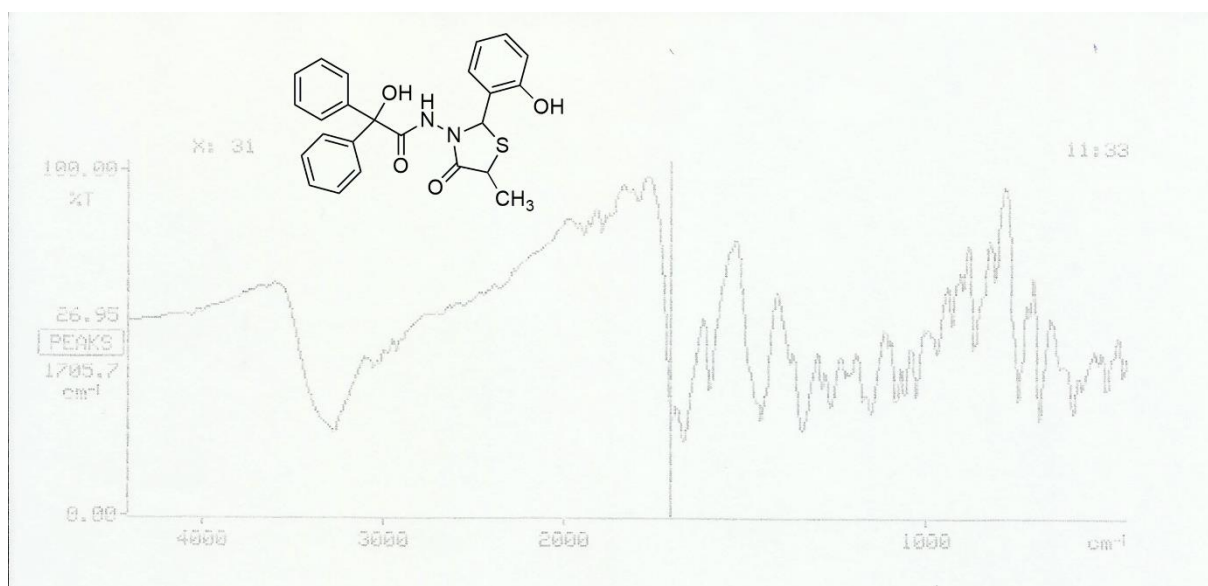


Figure S44: IR (KBr) Spectrum of Compound **4d**

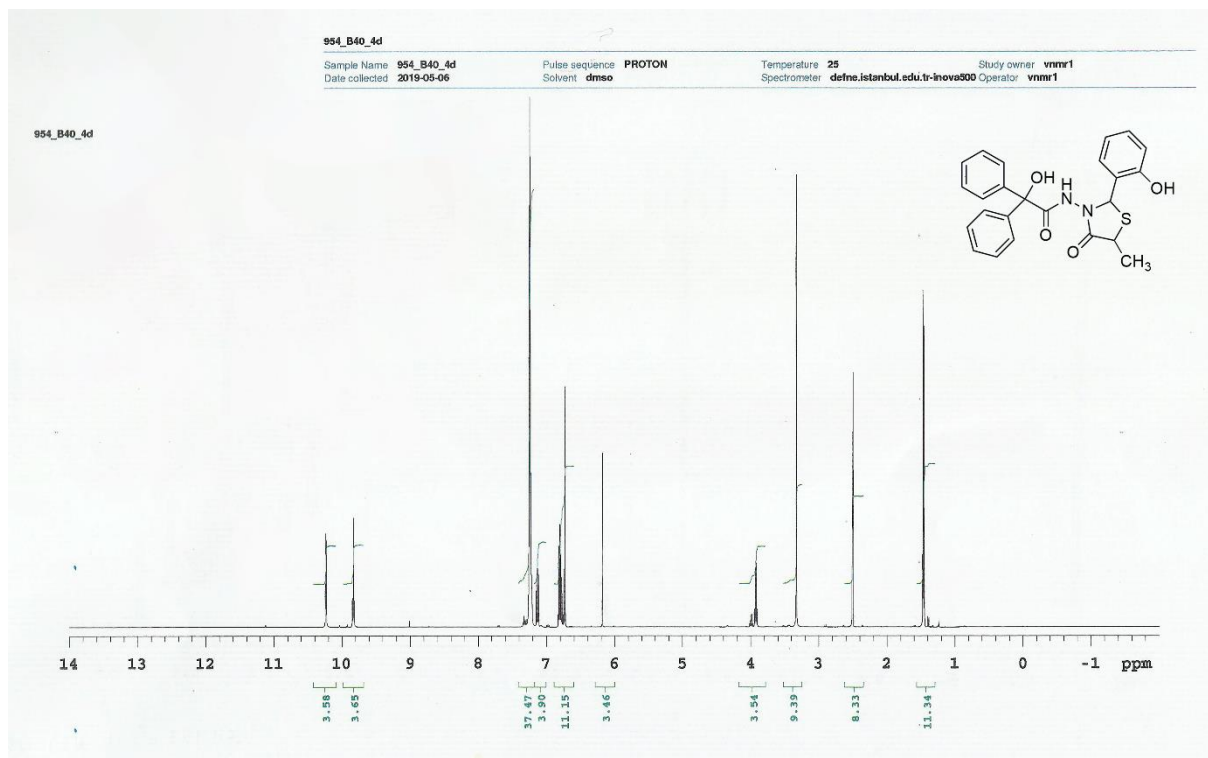


Figure S45: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **4d**

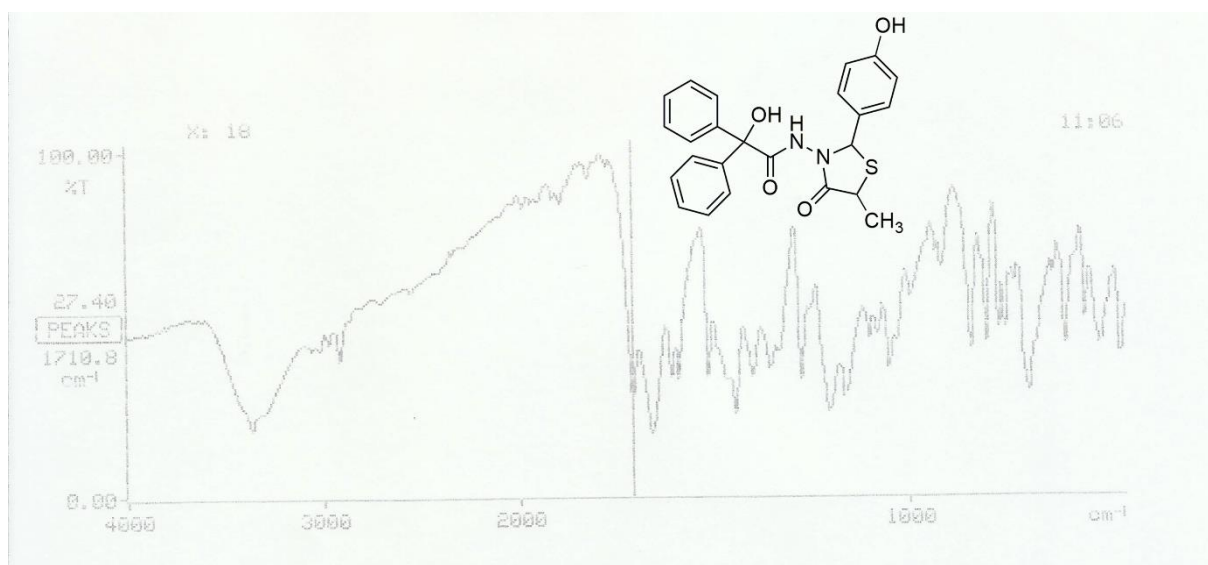


Figure S46: IR (KBr) Spectrum of Compound **4e**

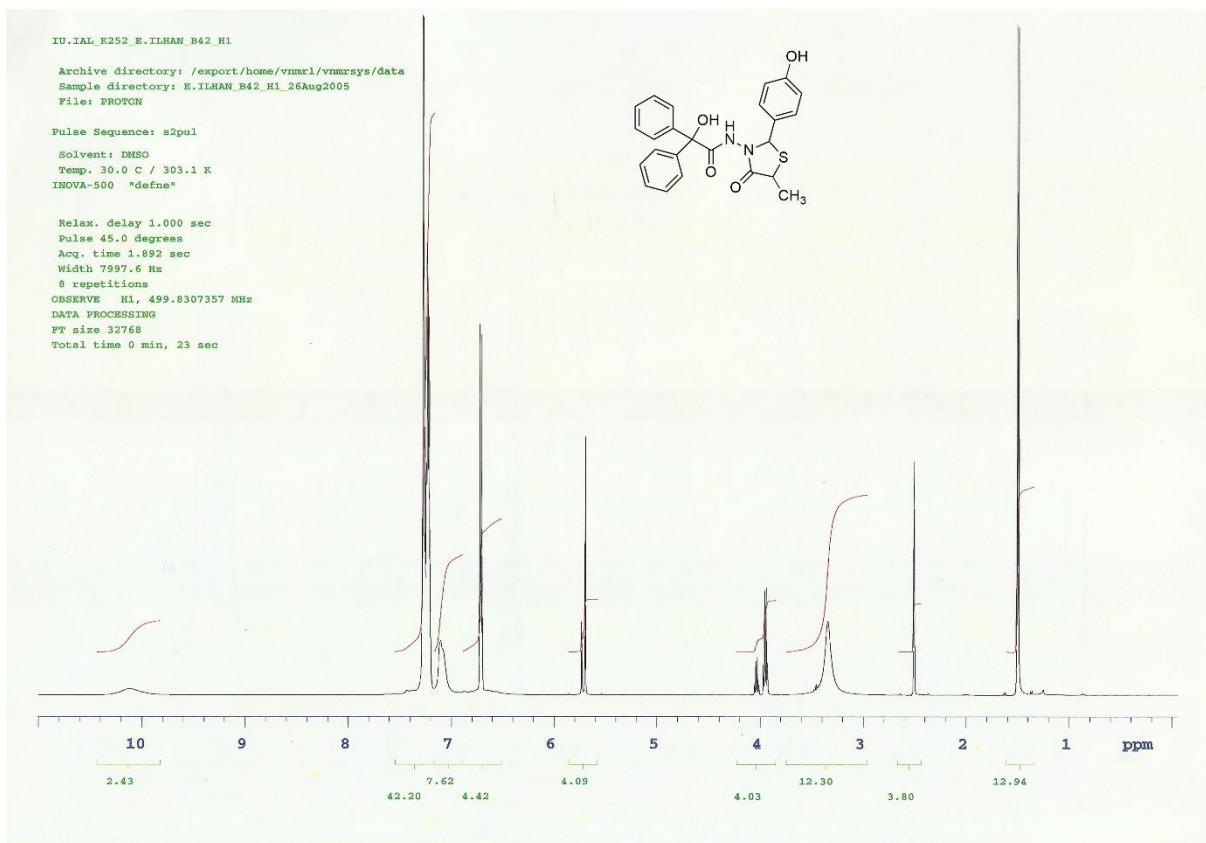


Figure S47: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **4e**

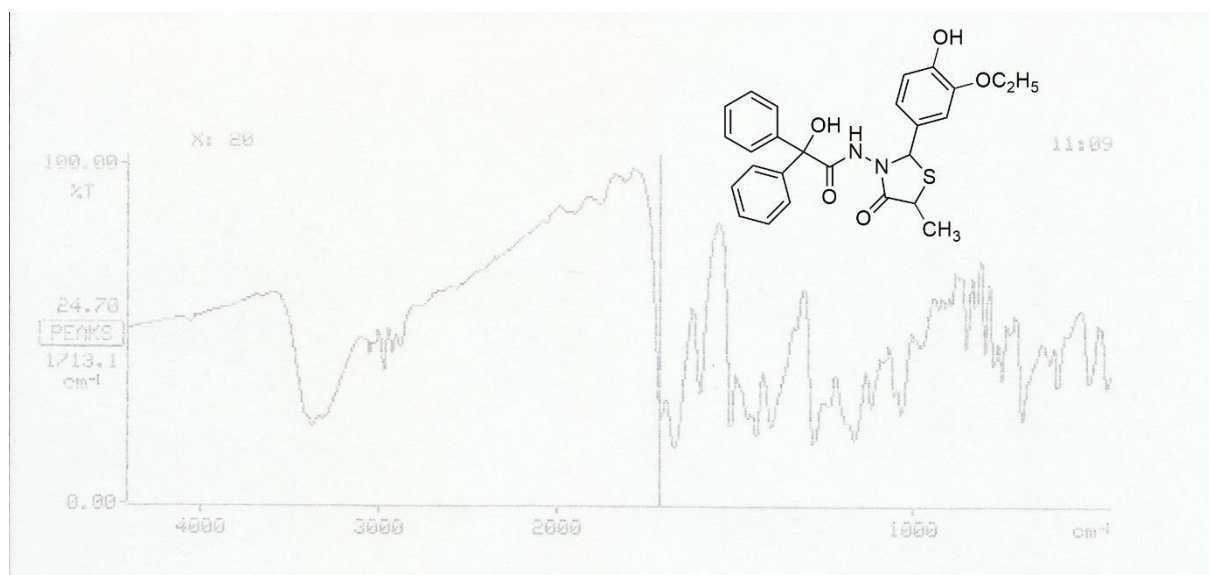


Figure S48: IR (KBr) Spectrum of Compound **4f**

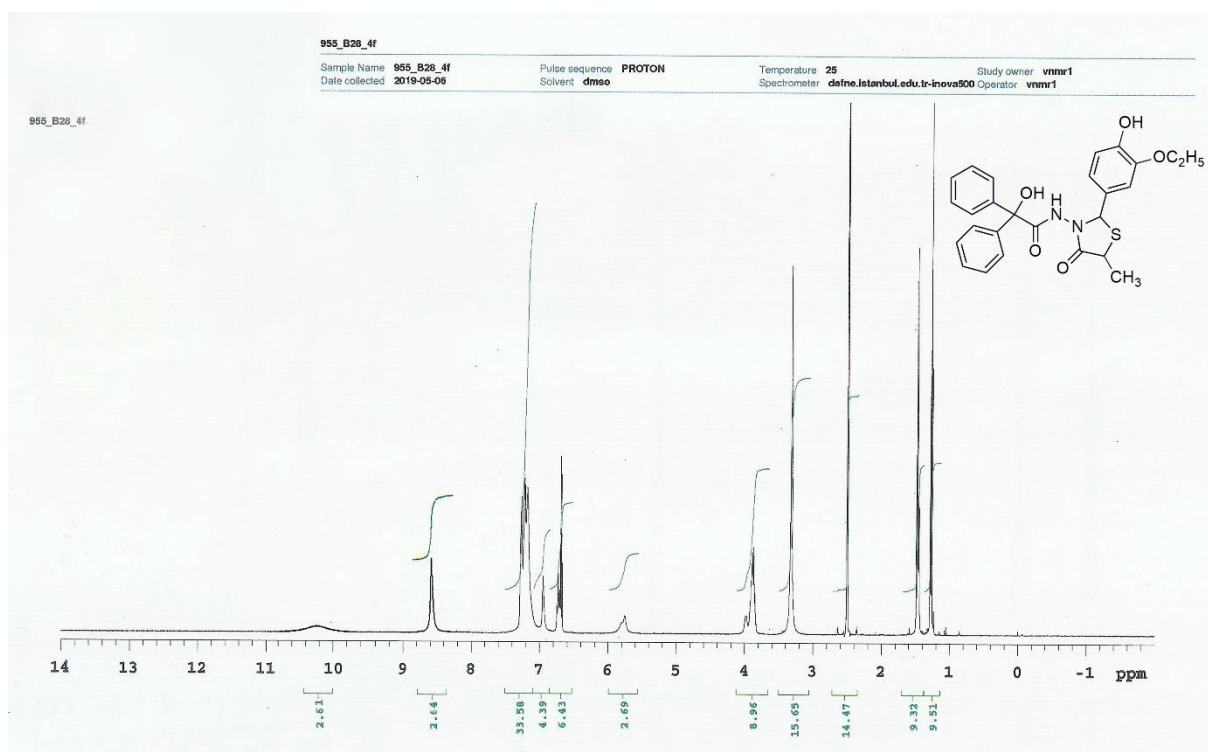


Figure S49: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **4f**

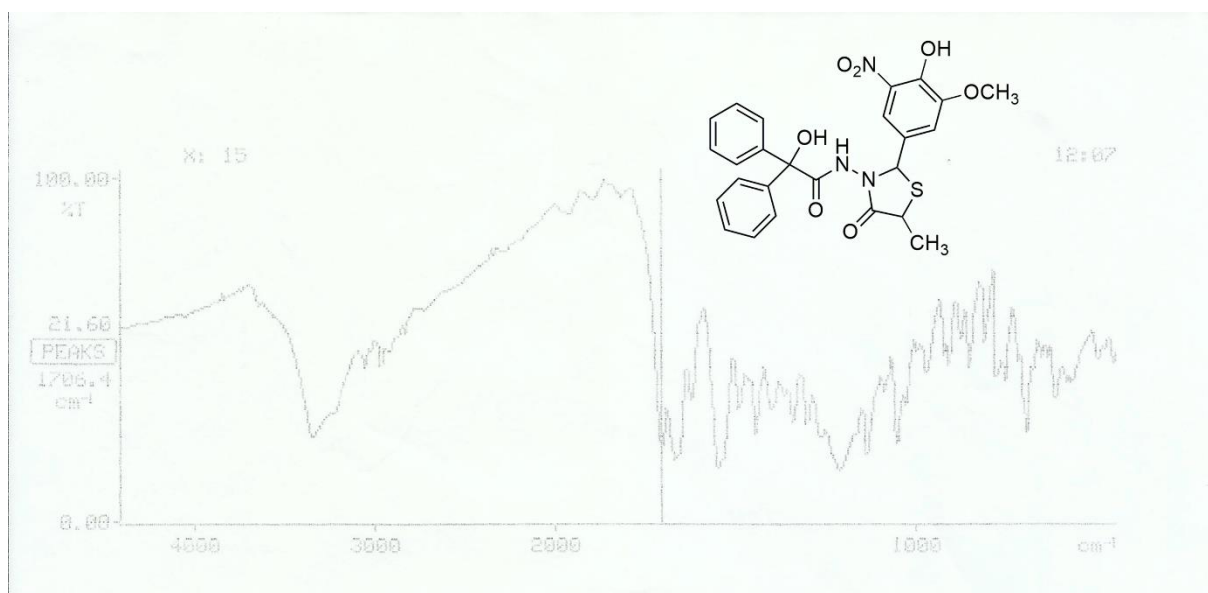


Figure S50: IR (KBr) Spectrum of Compound **4g**

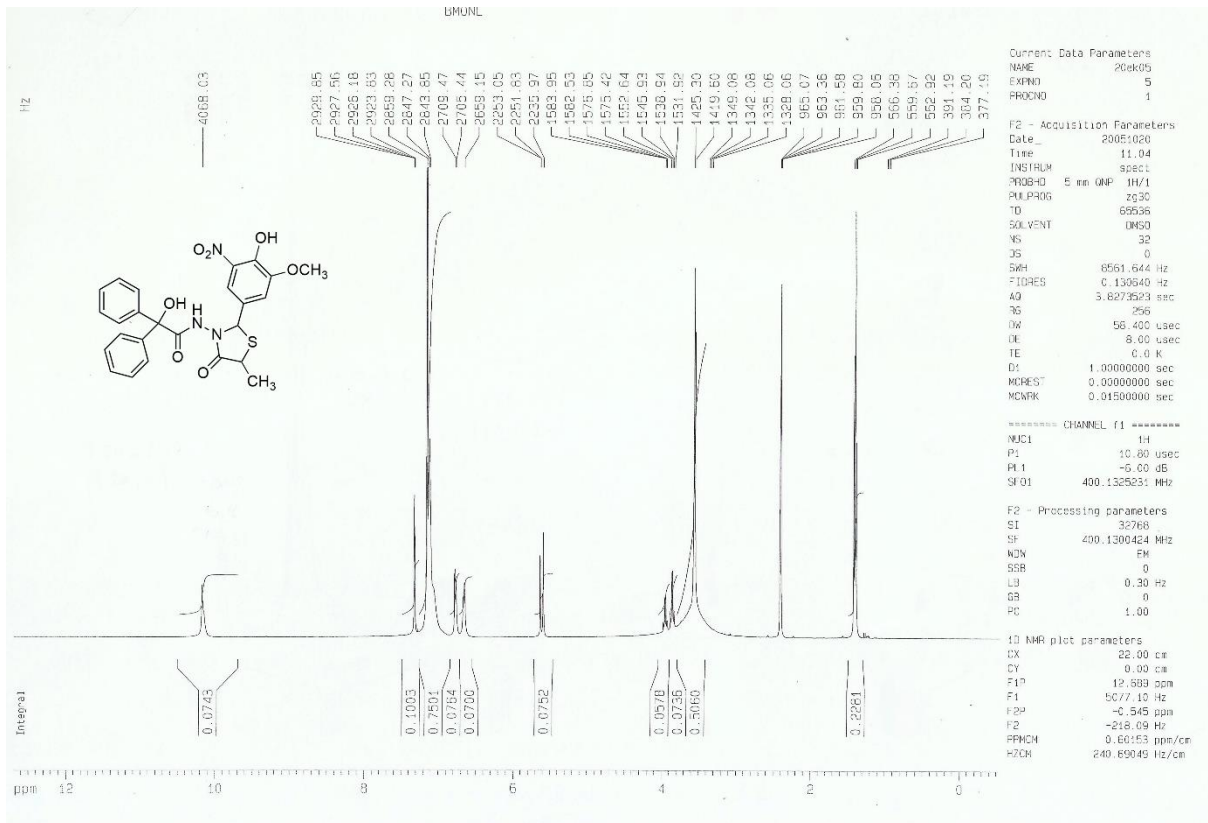


Figure S51: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **4g**

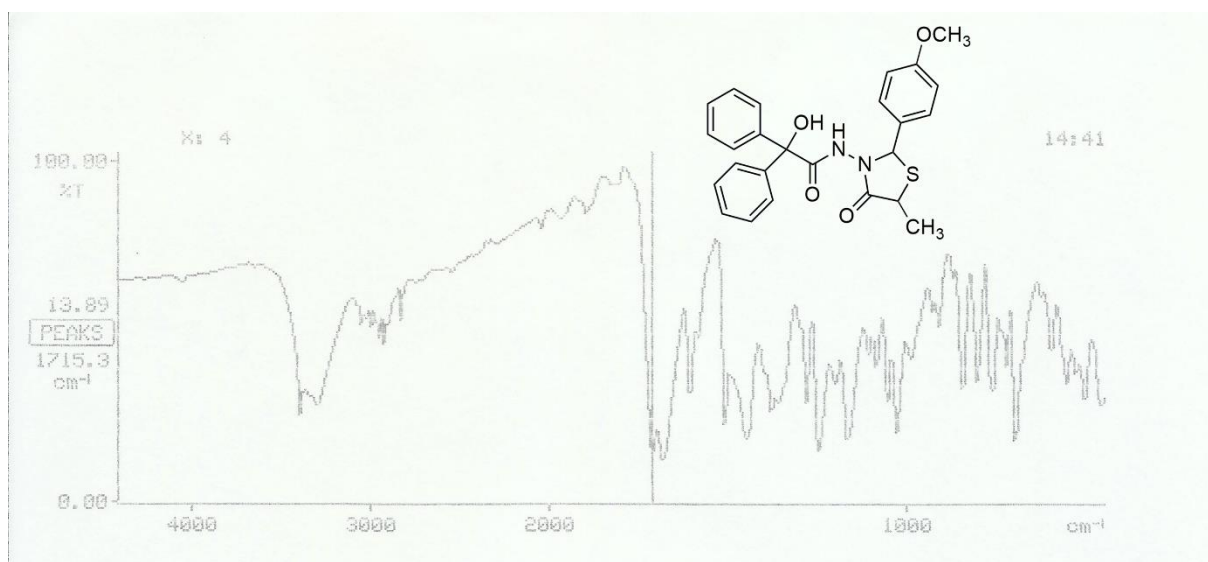


Figure S52: IR (KBr) Spectrum of Compound **4h**

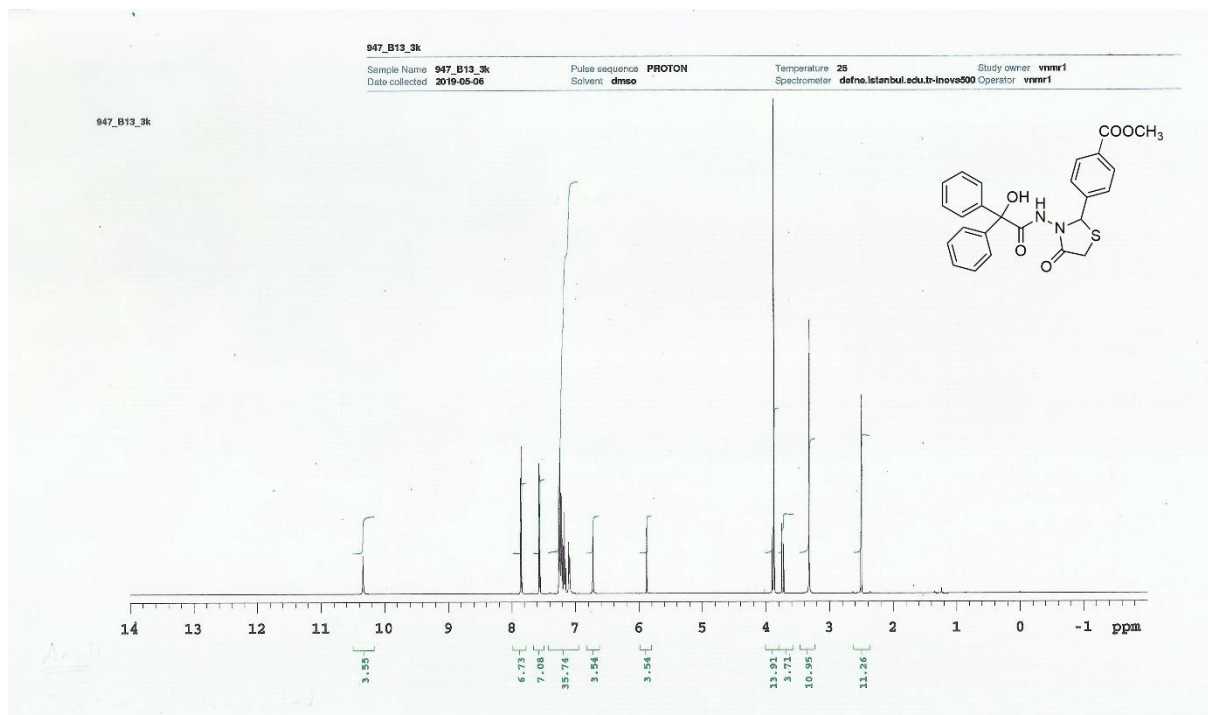


Figure S53: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **4h**

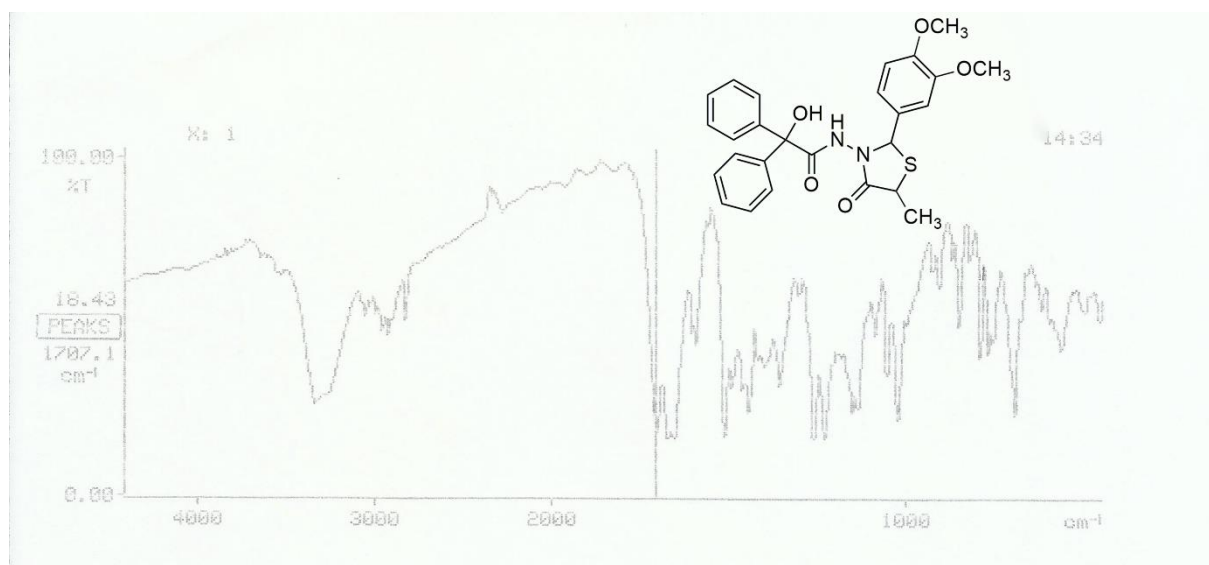


Figure S54: IR (KBr) Spectrum of Compound **4i**

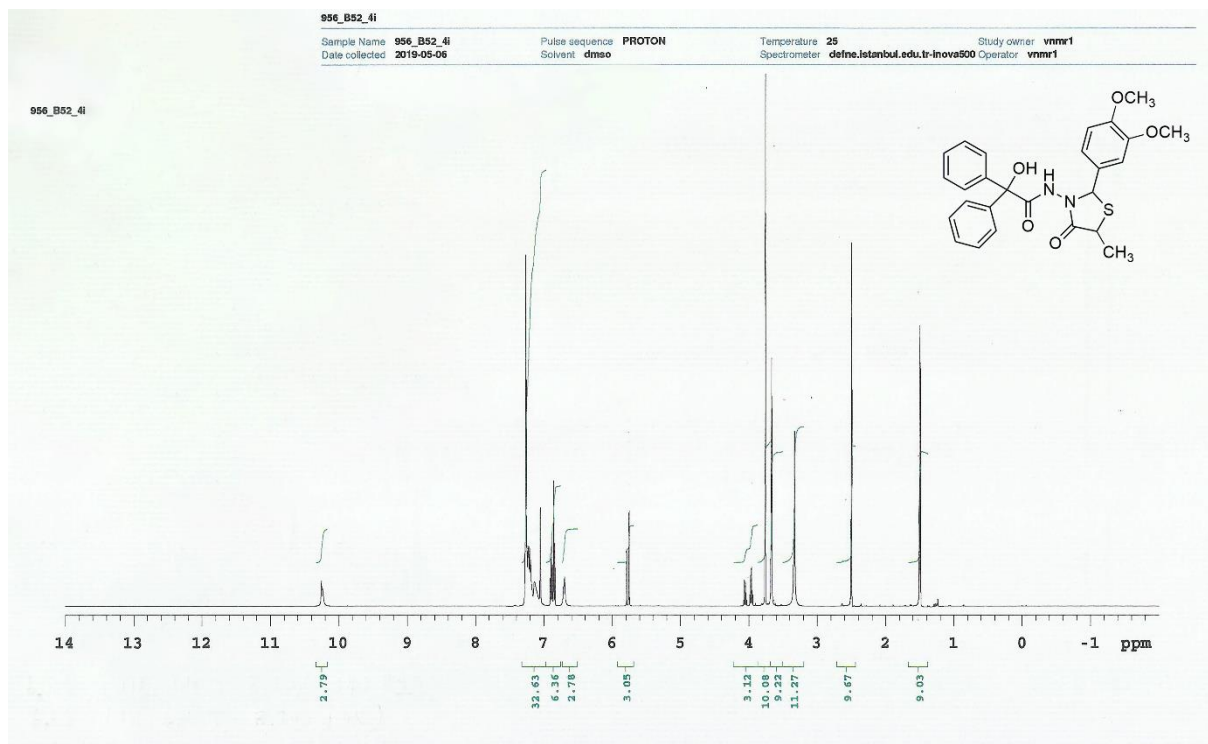


Figure S55: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **4i**

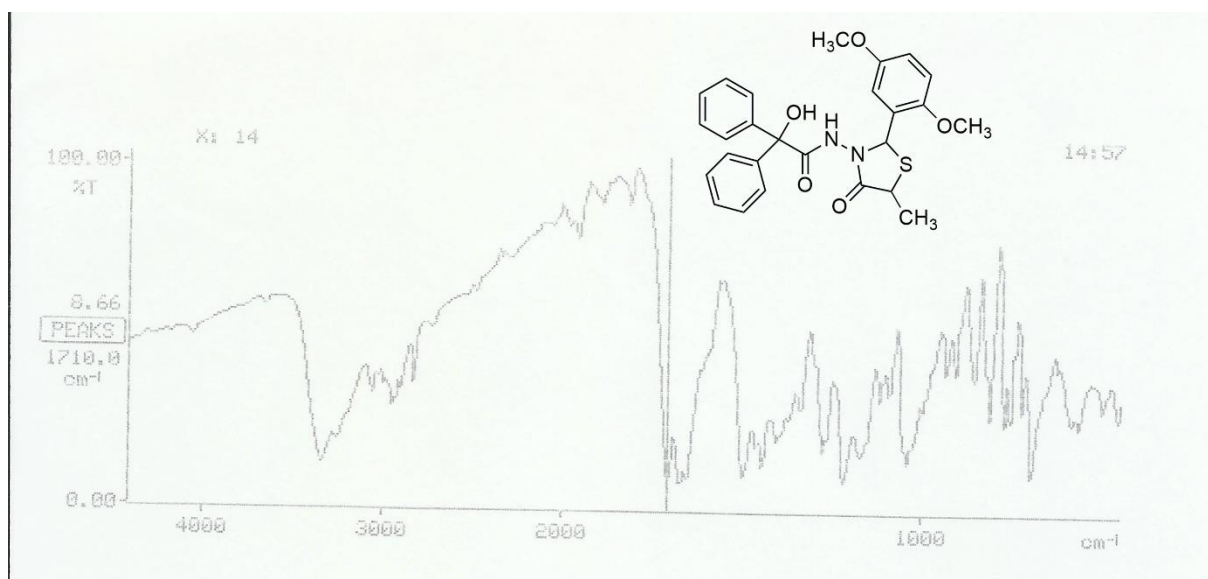


Figure S56: IR (KBr) Spectrum of Compound 4j

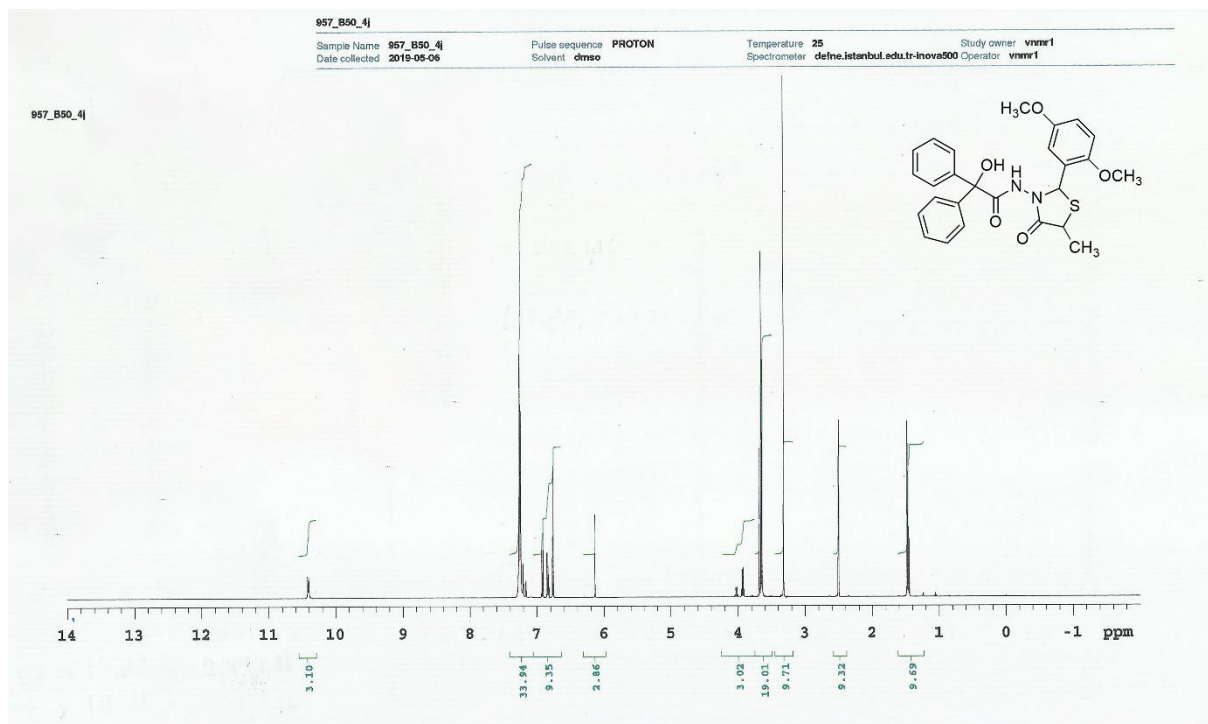


Figure S57: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **4j**

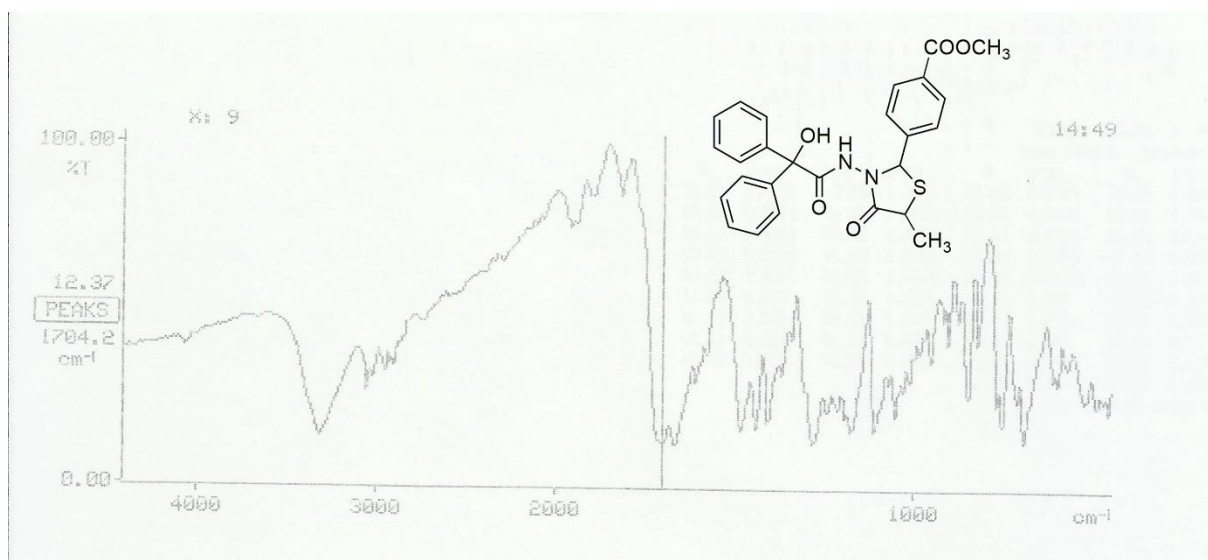


Figure S58: IR (KBr) Spectrum of Compound **4k**

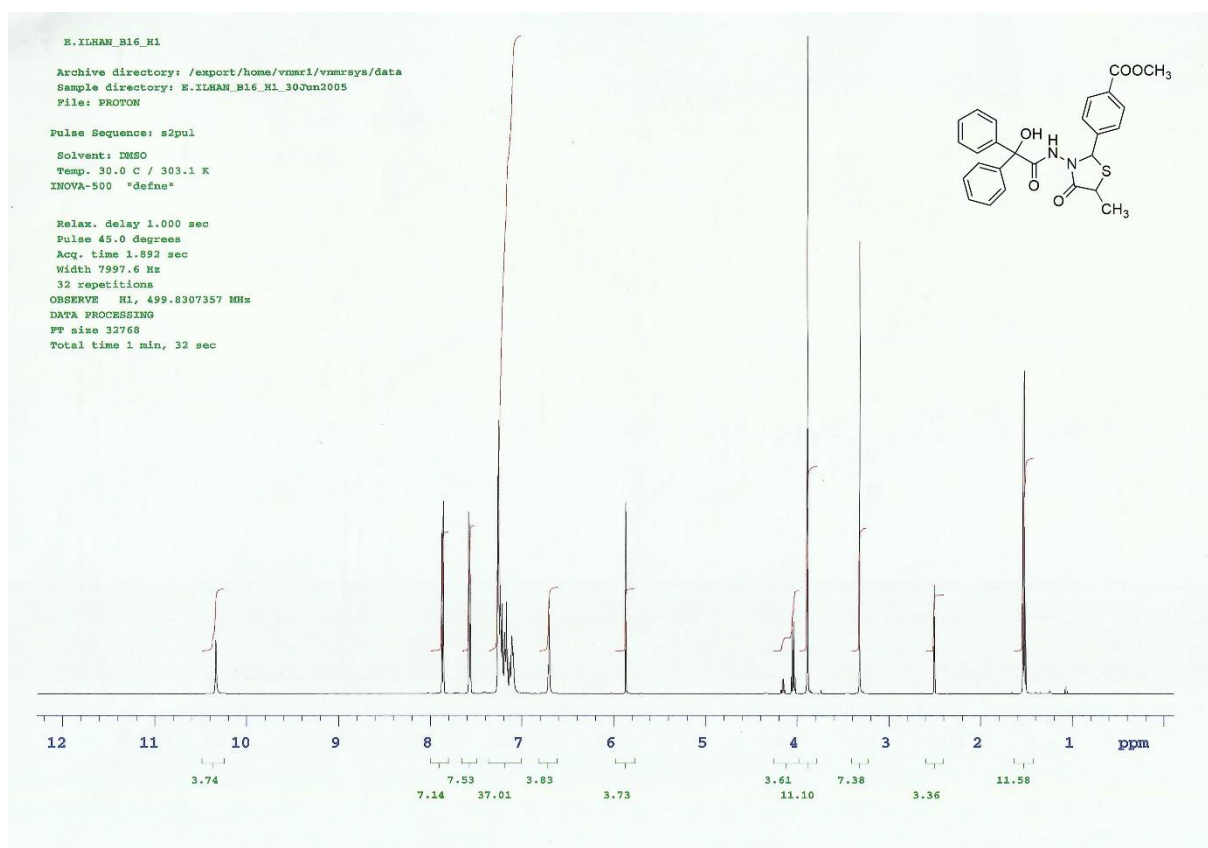


Figure S59: IR (KBr) Spectrum of Compound 4k

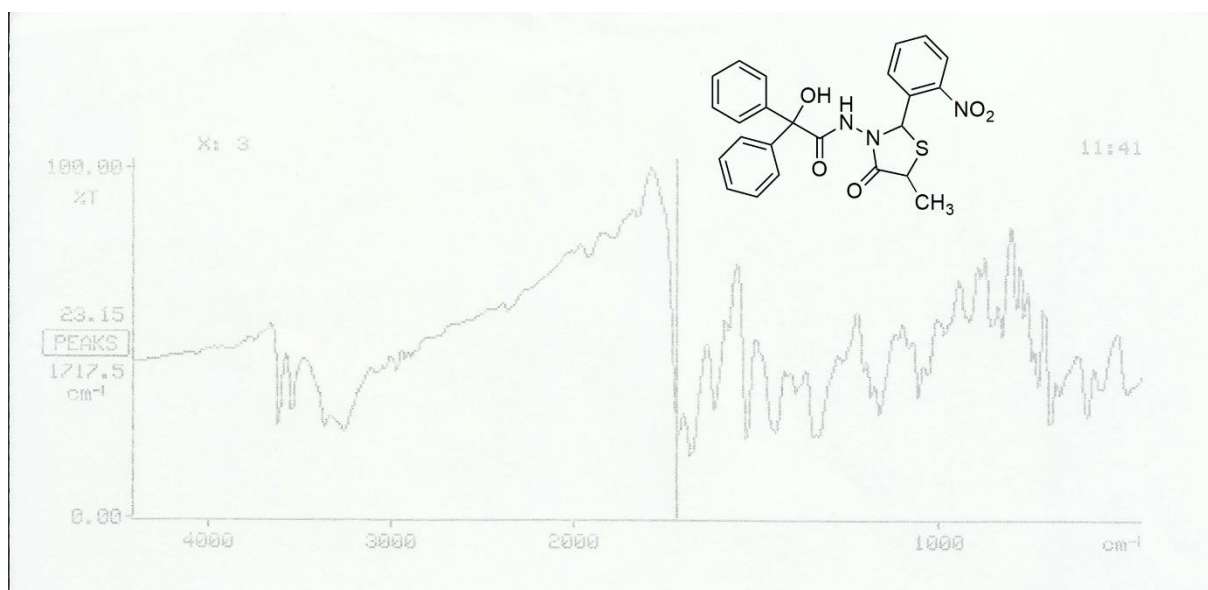


Figure S60: IR (KBr) Spectrum of Compound 41

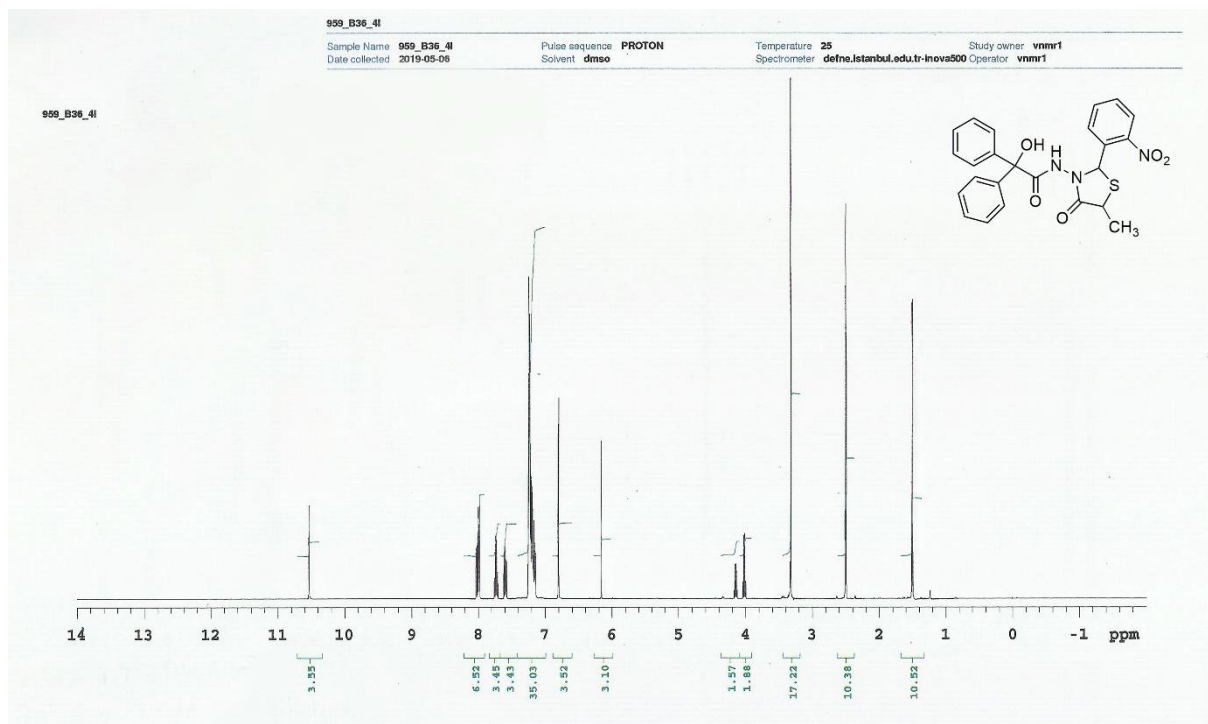


Figure S61: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **4I**

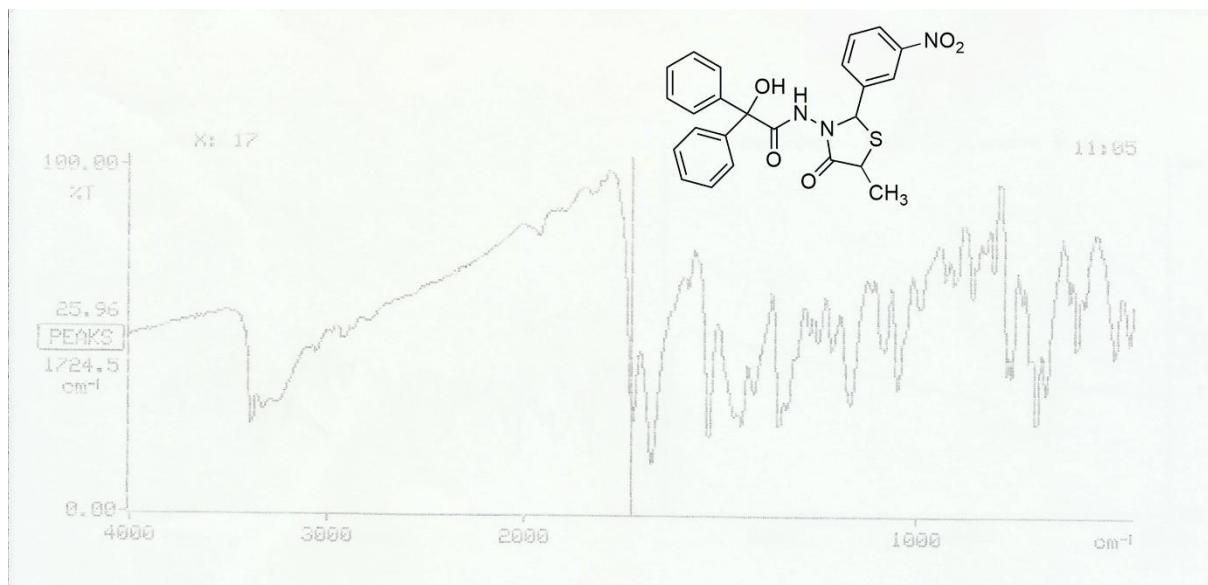


Figure S62: IR (KBr) Spectrum of Compound **4m**

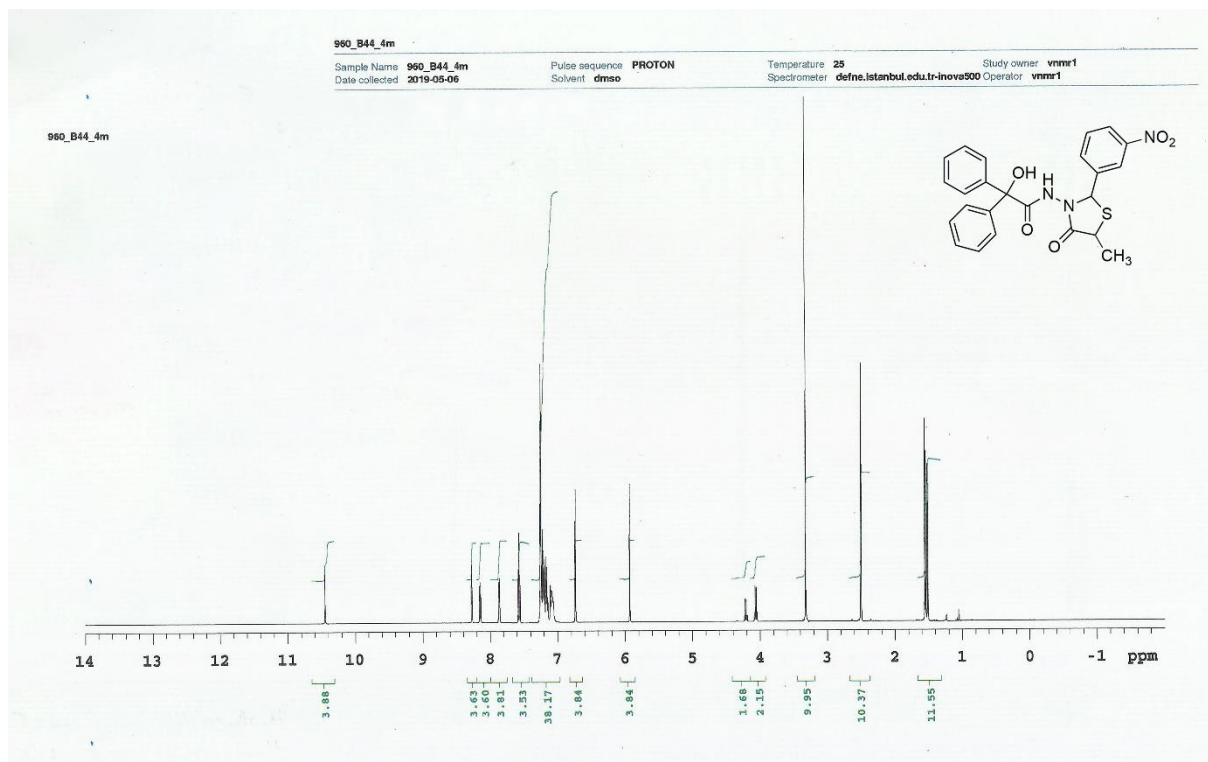


Figure S63: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **4m**

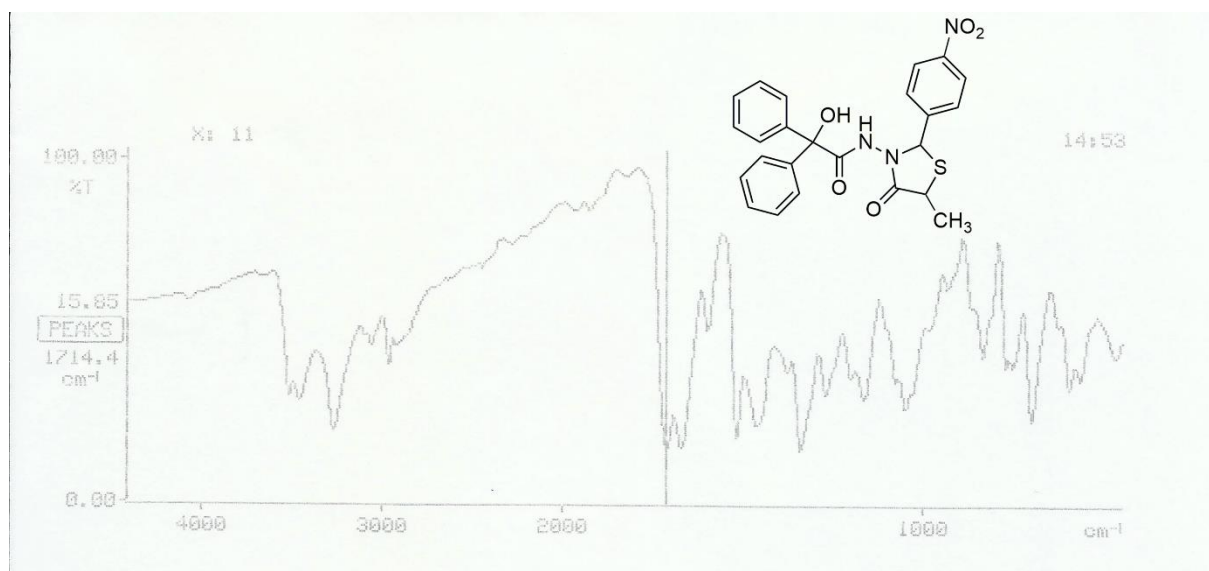


Figure S64: IR (KBr) Spectrum of Compound **4n**

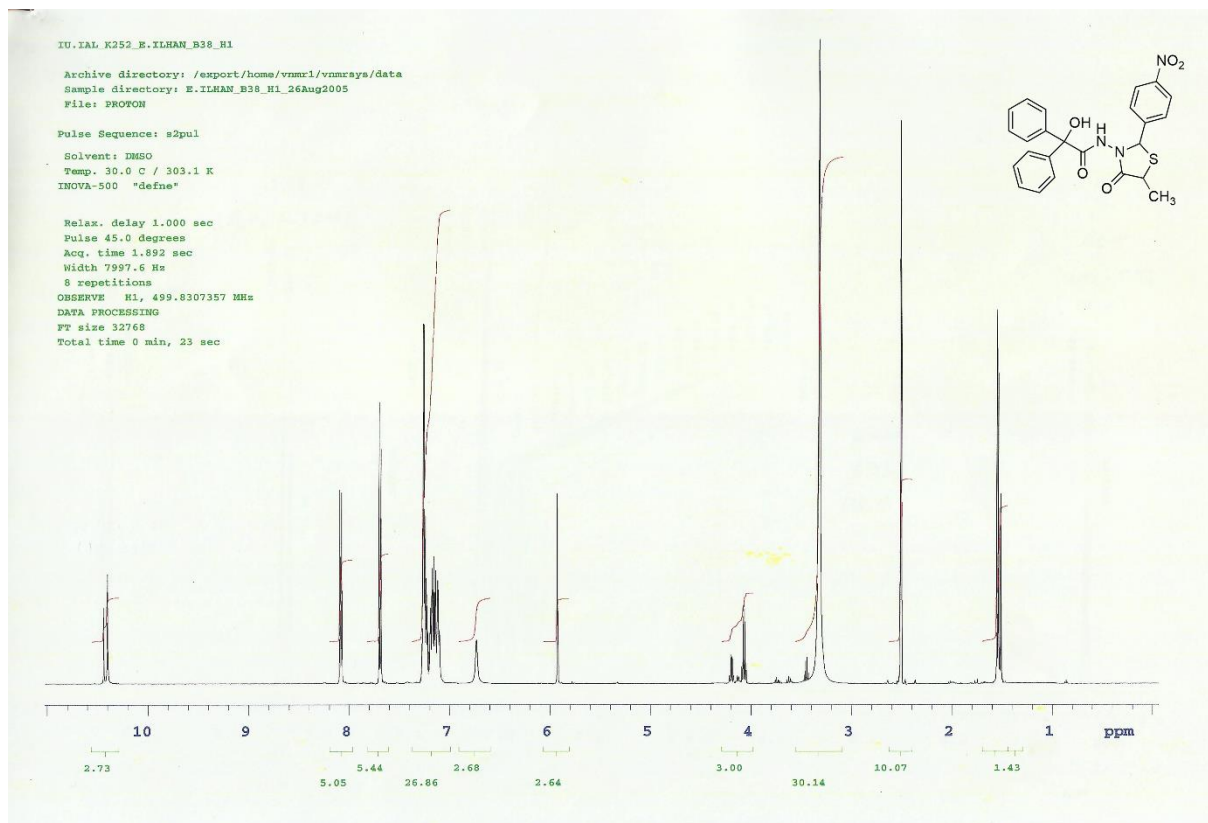


Figure S65: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **4n**

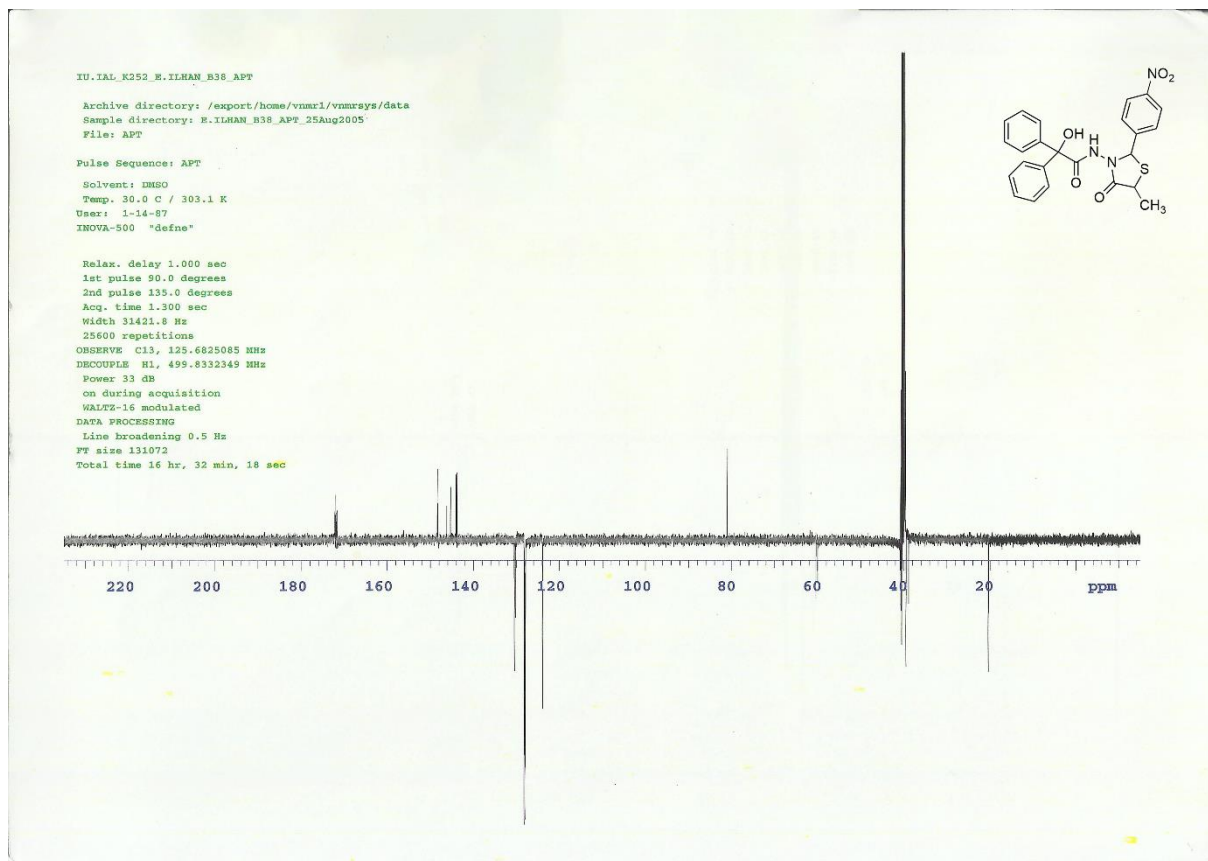


Figure S66: ¹³C-NMR (125.6 MHz, APT (decoupled)) Spectrum of Compound **4n**

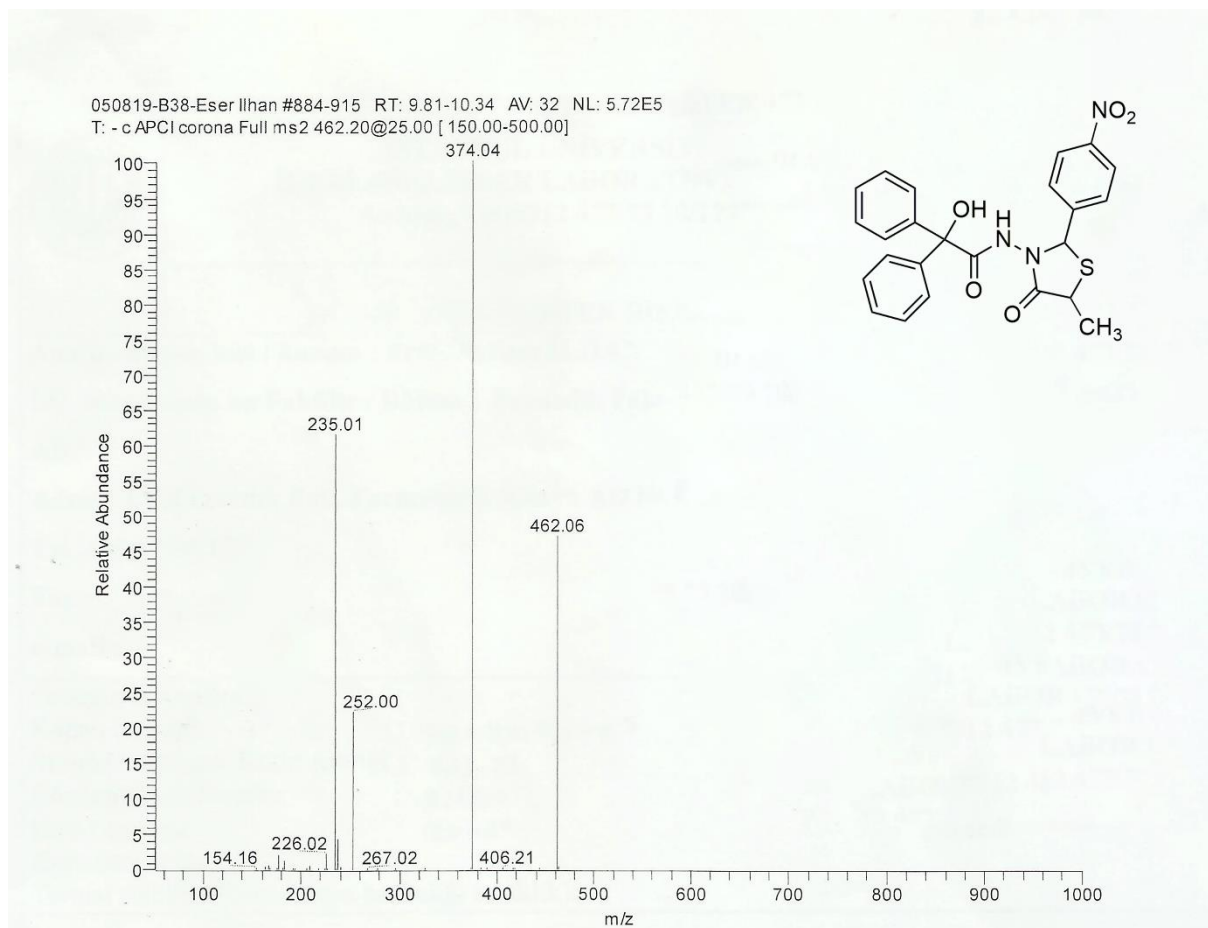


Figure S67: MS-APCI(-) (150 eV, m/z, %) Spectrum of Compound **4n**

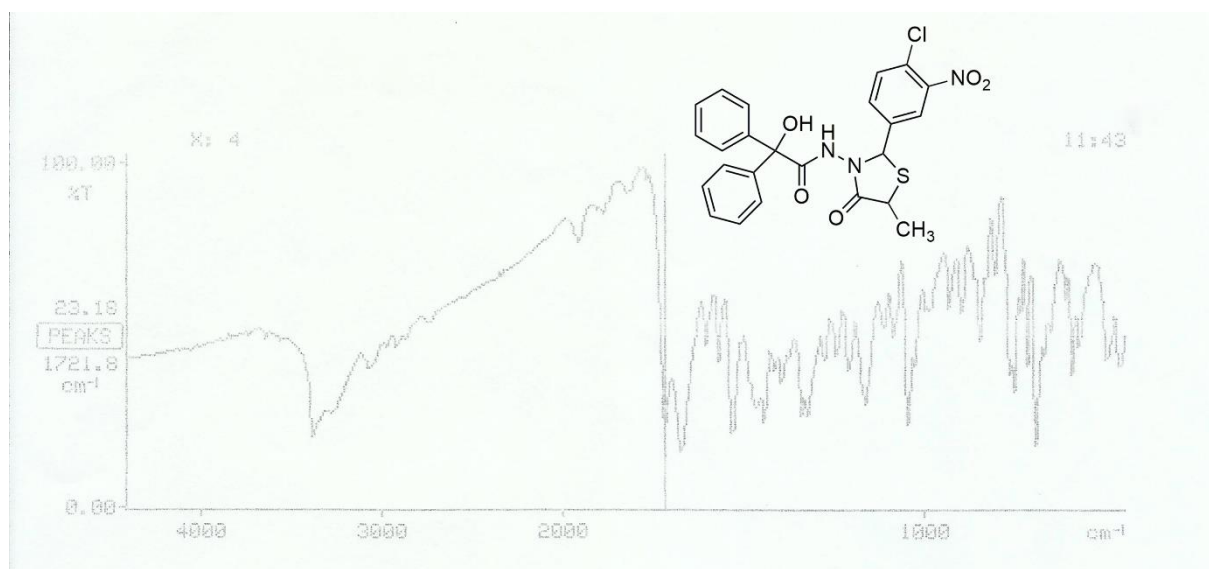


Figure S68: IR (KBr) Spectrum of Compound **4o**

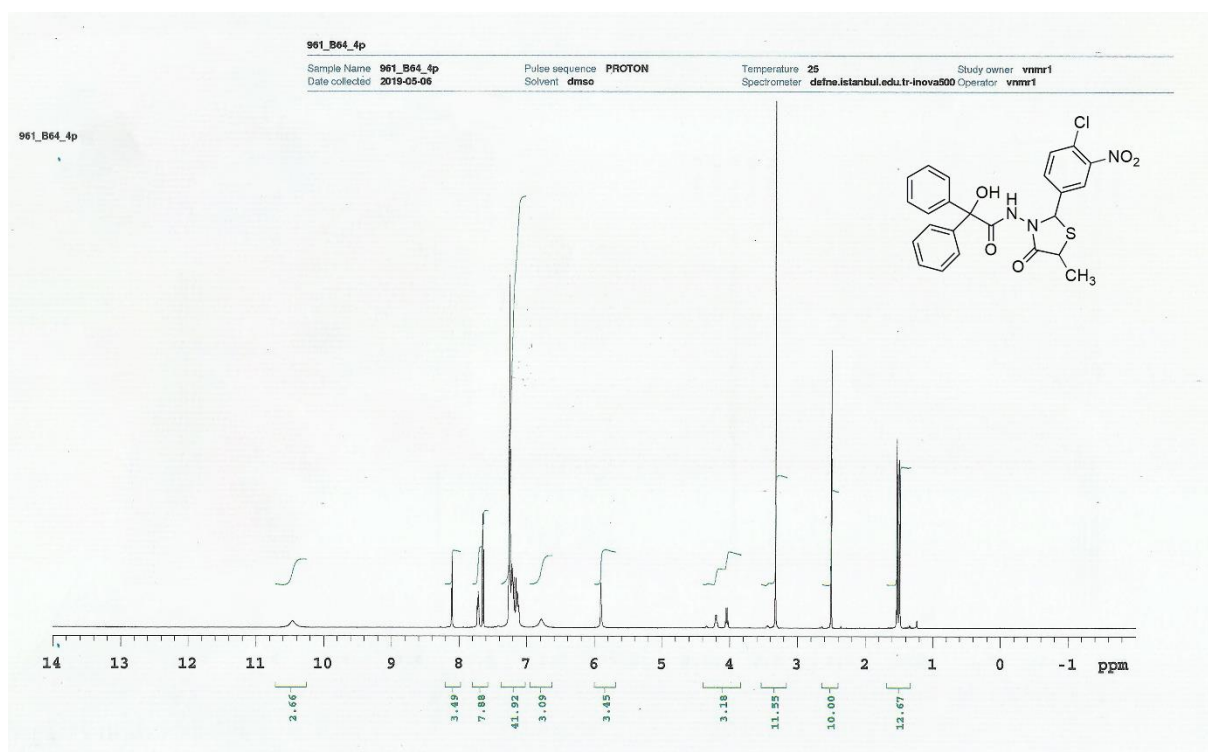


Figure S69: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **4o**

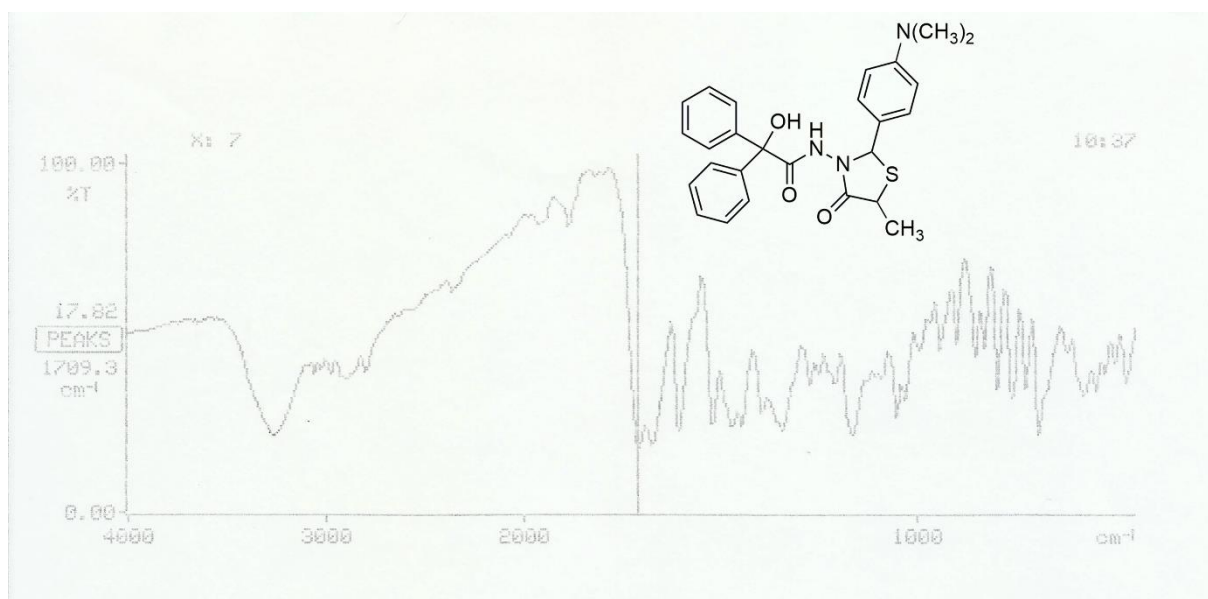


Figure S70: IR (KBr) Spectrum of Compound **4p**

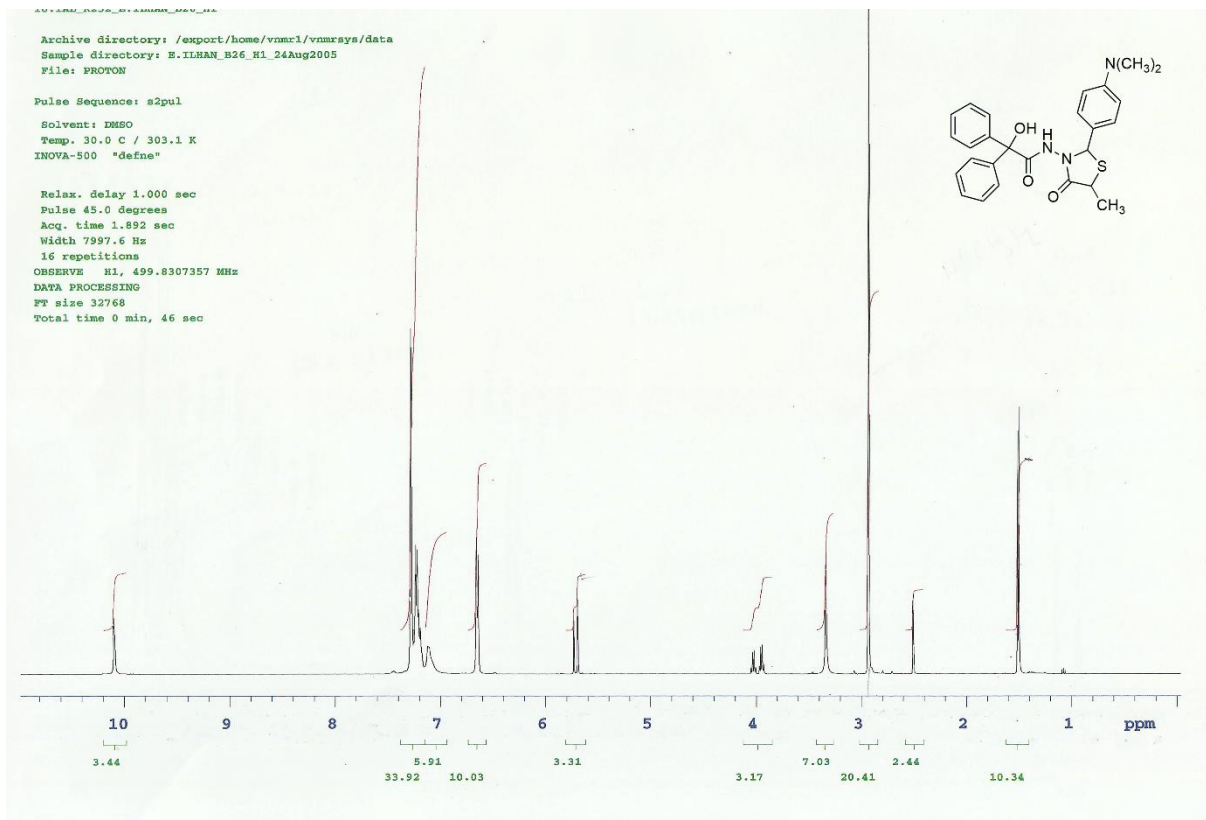


Figure S71: $^1\text{H-NMR}$ (500 MHz, $\text{DMSO-}d_6$) Spectrum of Compound **4p**

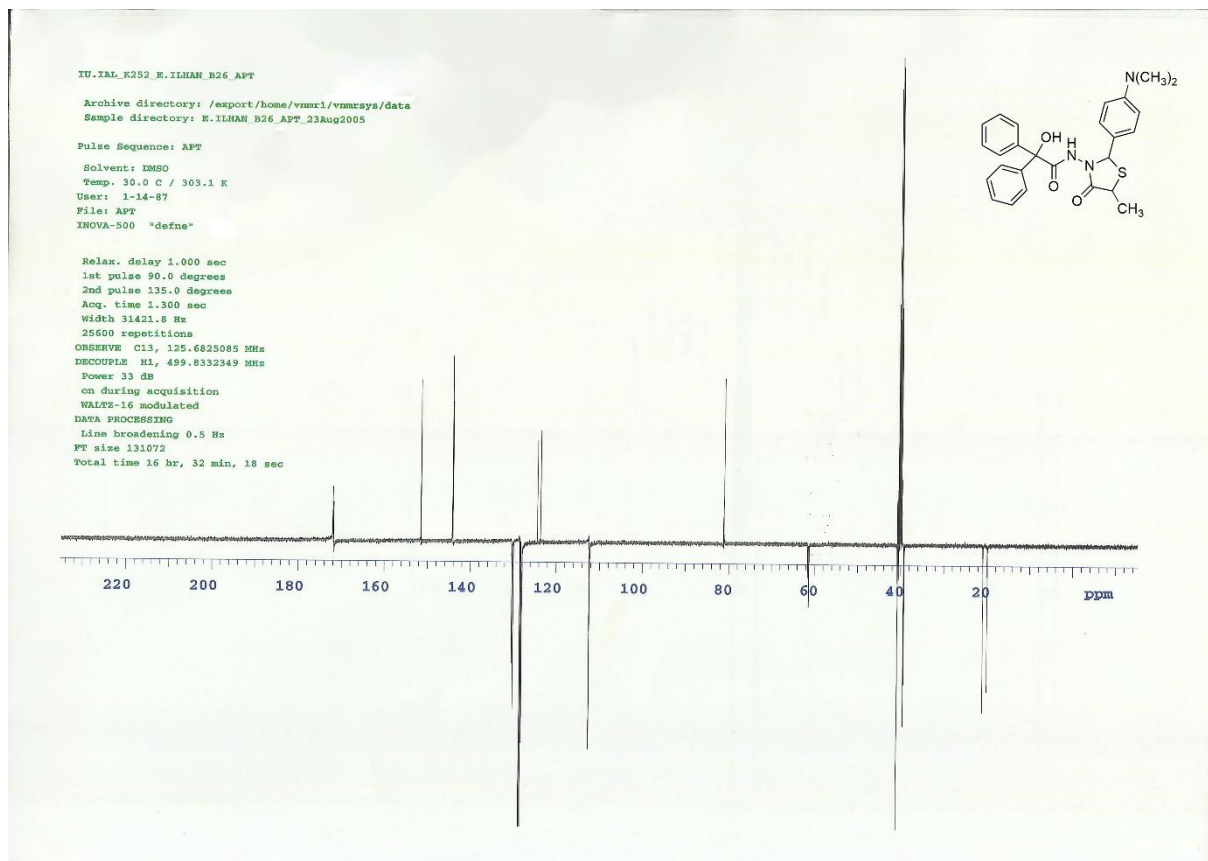


Figure S72: ^{13}C -NMR (125.6 MHz, APT (decoupled)) Spectrum of Compound **4p**

050819-B26-Eser Ilhan #143-164 RT: 2.75-3.20 AV: 22 NL: 2.69E5
T: - c APCI corona Full ms2 460.20@25.00 [150.00-500.00]

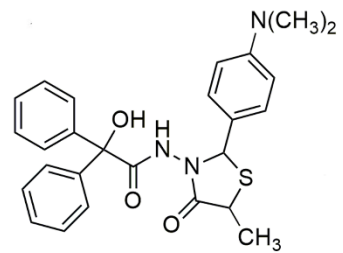
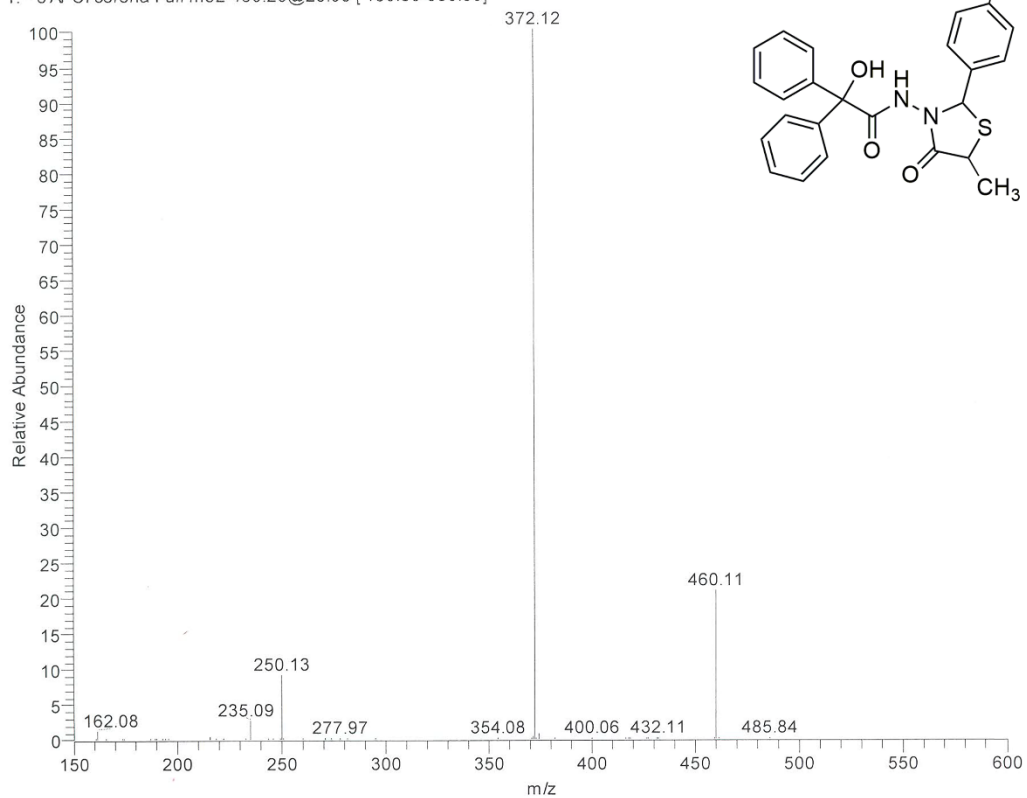


Figure S73: MS-APCI(-) (150 eV, m/z, %) Spectrum of Compound **4p**