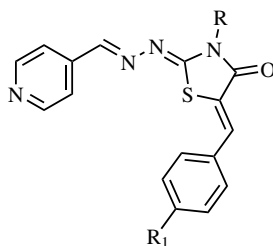


SYNTHESIS, ANTIMICROBIAL AND CYTOTOXIC ACTIVITIES OF 5-BENZYLIDENE-2-[(PYRIDINE-4-YLMETHYLENE)HYDRAZONO]-THIAZOLIDIN-4-ONE AND 2-[(PYRIDINE-4-YLMETHYLENE)HYDRAZONO]-THIAZOLIDIN-4-ONE DERIVATIVES

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Infrared and ¹H NMR spectra



- | | |
|---|---|
| 4a- R = H ; R ₁ = H | 4g- R = C ₂ H ₅ ; R ₁ = H |
| 4b- R = H ; R ₁ = NO ₂ | 4h- R = C ₂ H ₅ ; R ₁ = NO ₂ |
| 4c- R = H ; R ₁ = N(CH ₃) ₂ | 4i- R = C ₂ H ₅ ; R ₁ = N(CH ₃) ₂ |
| 4d- R = CH ₃ ; R ₁ = H | 4j- R = C ₆ H ₅ ; R ₁ = H |
| 4e- R = CH ₃ ; R ₁ = NO ₂ | 4k- R = C ₆ H ₅ ; R ₁ = NO ₂ |
| 4f- R = CH ₃ ; R ₁ = N(CH ₃) ₂ | 4l- R = C ₆ H ₅ ; R ₁ = N(CH ₃) ₂ |

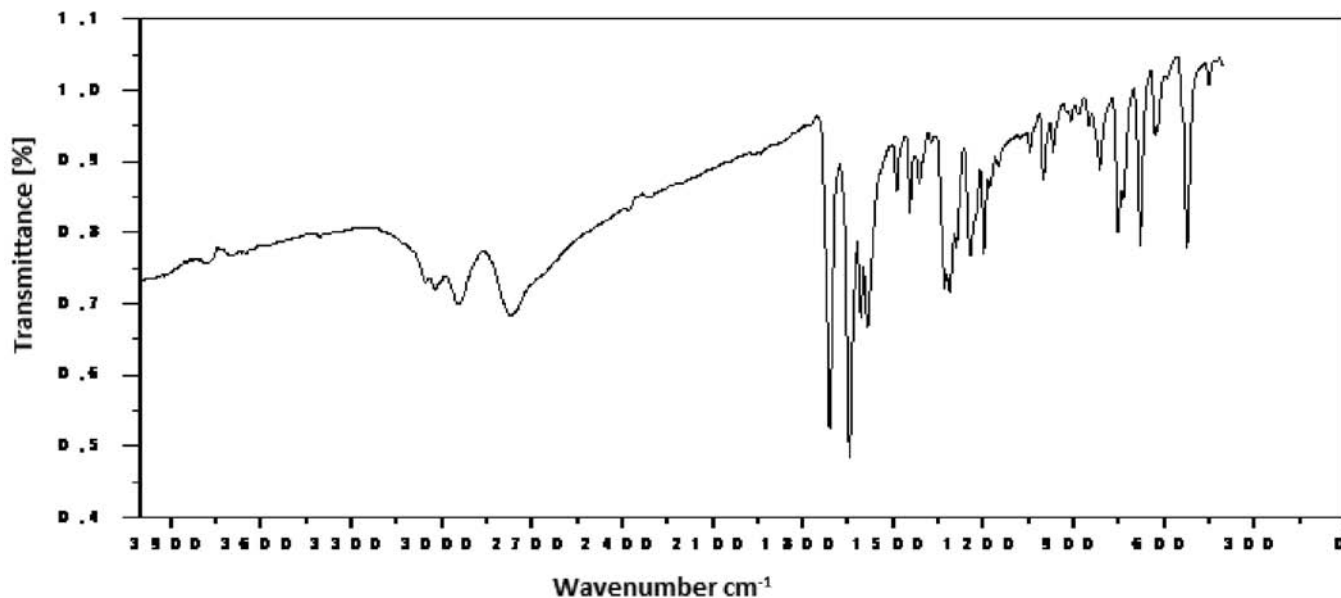


Figure 1S. IR spectrum of 5-Benzylidene-2-(2-(pyridin-4-yl-methylene)hydrazone)thiazolidin-4-one (4a) (KBr, cm⁻¹)

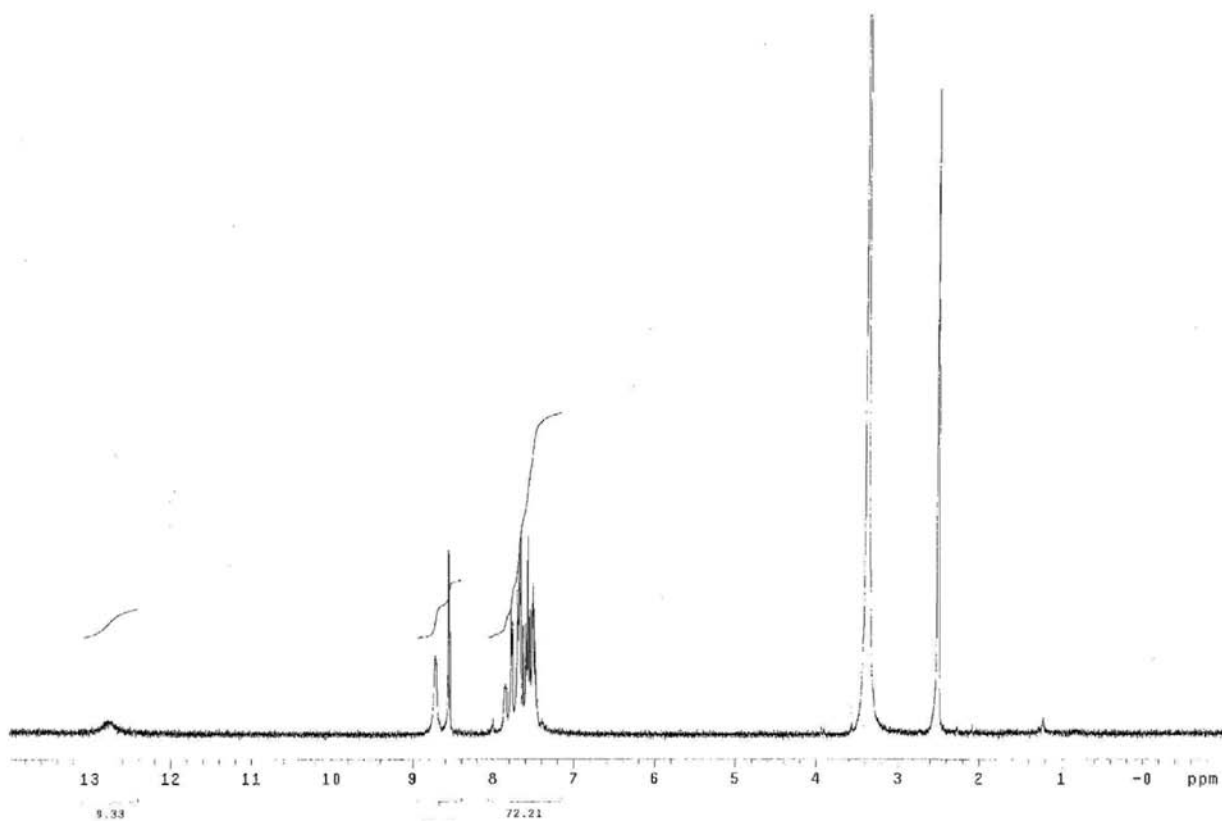


Figure 2S. ¹H NMR spectrum of 5-Benzylidene-2-(2-(pyridin-4-yl-methylene)hydrazono)thiazolidin-4-one (**4a**) (δ , DMSO-*d*₆, 300 MHz)

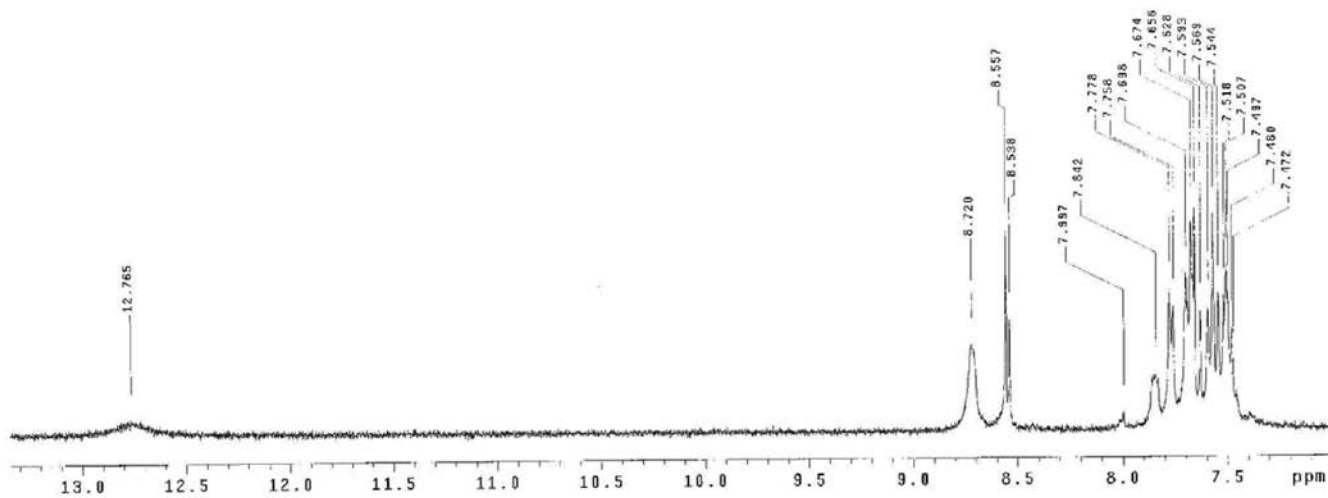


Figure 3S. Expansion of the ¹H NMR spectrum of 5-Benzylidene-2-(2-(pyridin-4-yl-methylene)hydrazono)thiazolidin-4-one (**4a**) (δ , DMSO-*d*₆, 300 MHz)

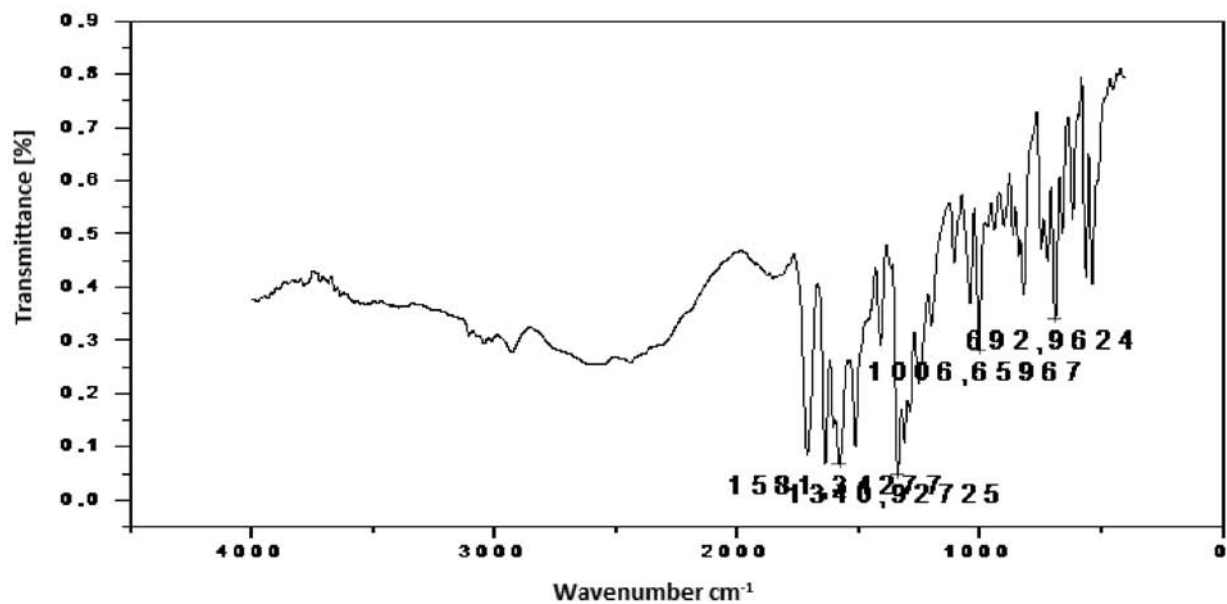


Figure 4S. IR spectrum of 5-(4-Nitrobenzylidene)-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4b**) (KBr, cm^{-1})

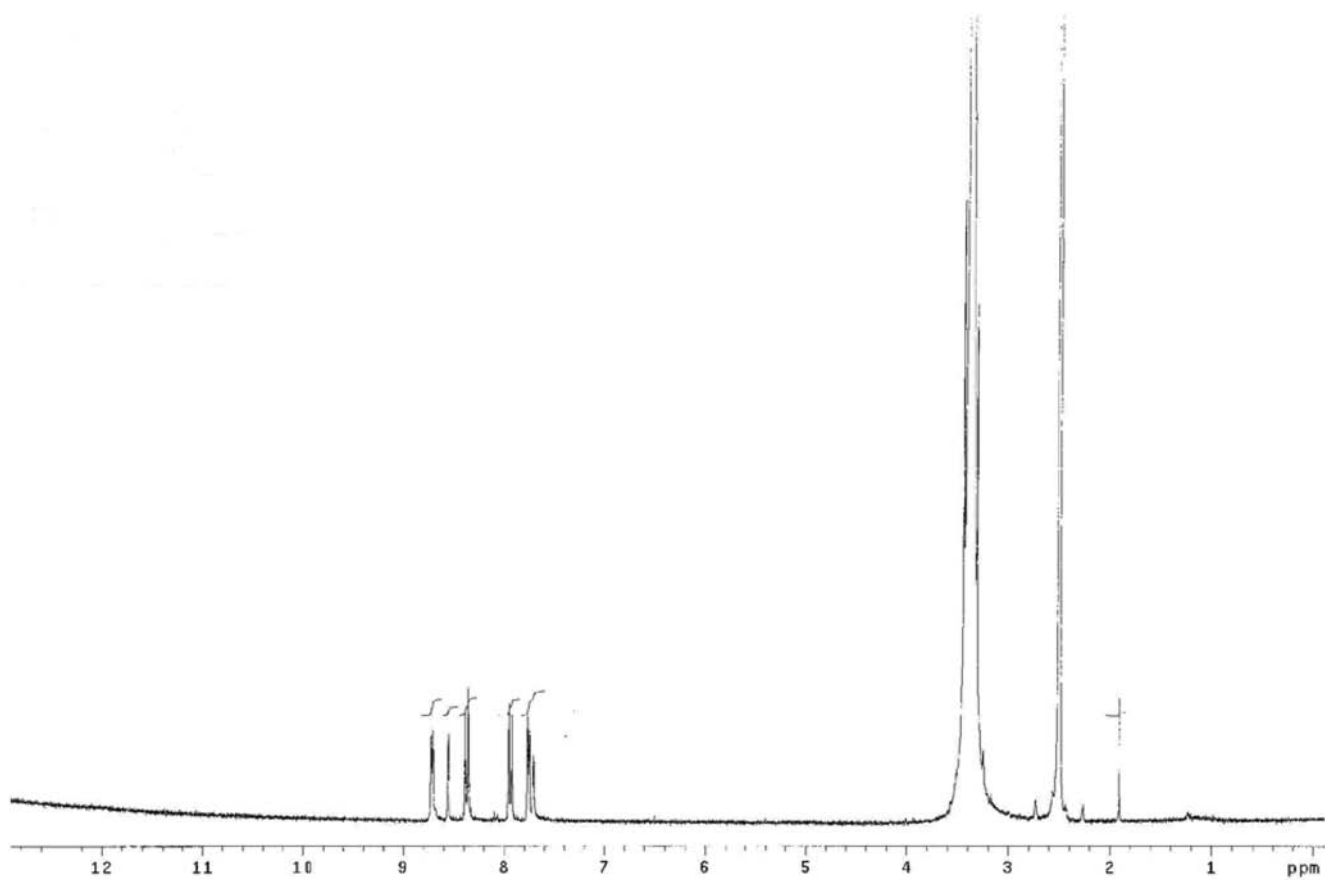


Figure 5S. ^1H NMR spectrum of 5-(4-Nitrobenzylidene)-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4b**) (δ , $\text{DMSO}-d_6$, 300 MHz)

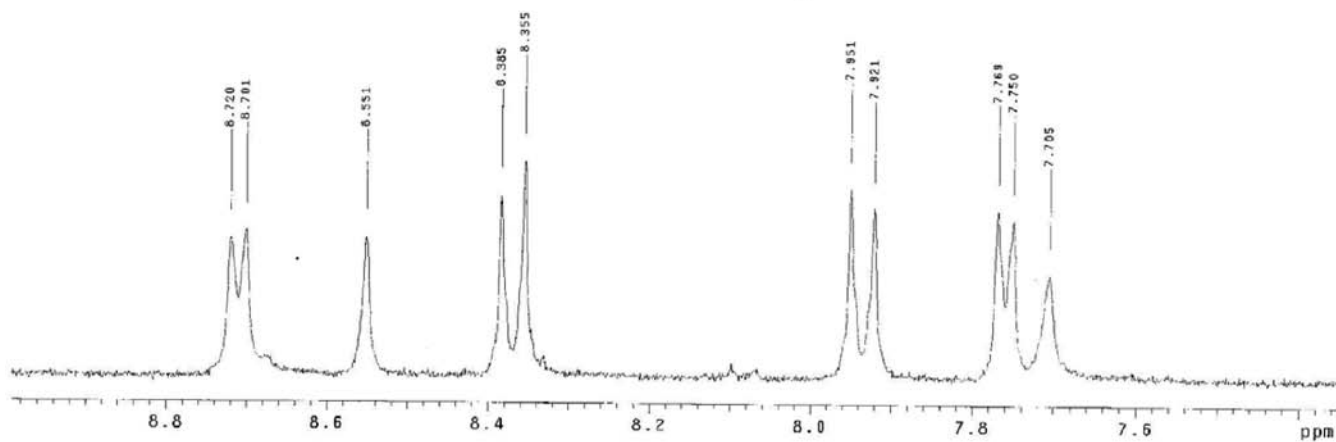


Figure 6S. Expansion of the ¹H NMR spectrum of 5-(4-Nitrobenzylidene)-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4b**) (δ , DMSO-*d*₆, 300 MHz)

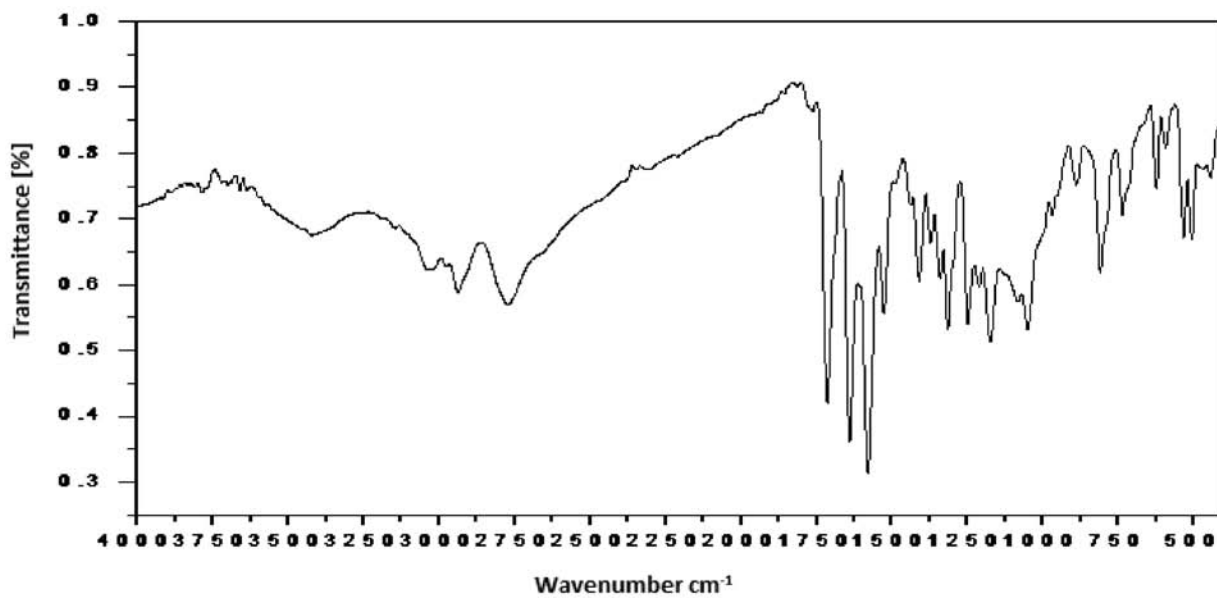


Figure 7S. IR spectrum of 5-(4-(Dimethylamino)benzylidene)-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4c**) (KBr, cm⁻¹)

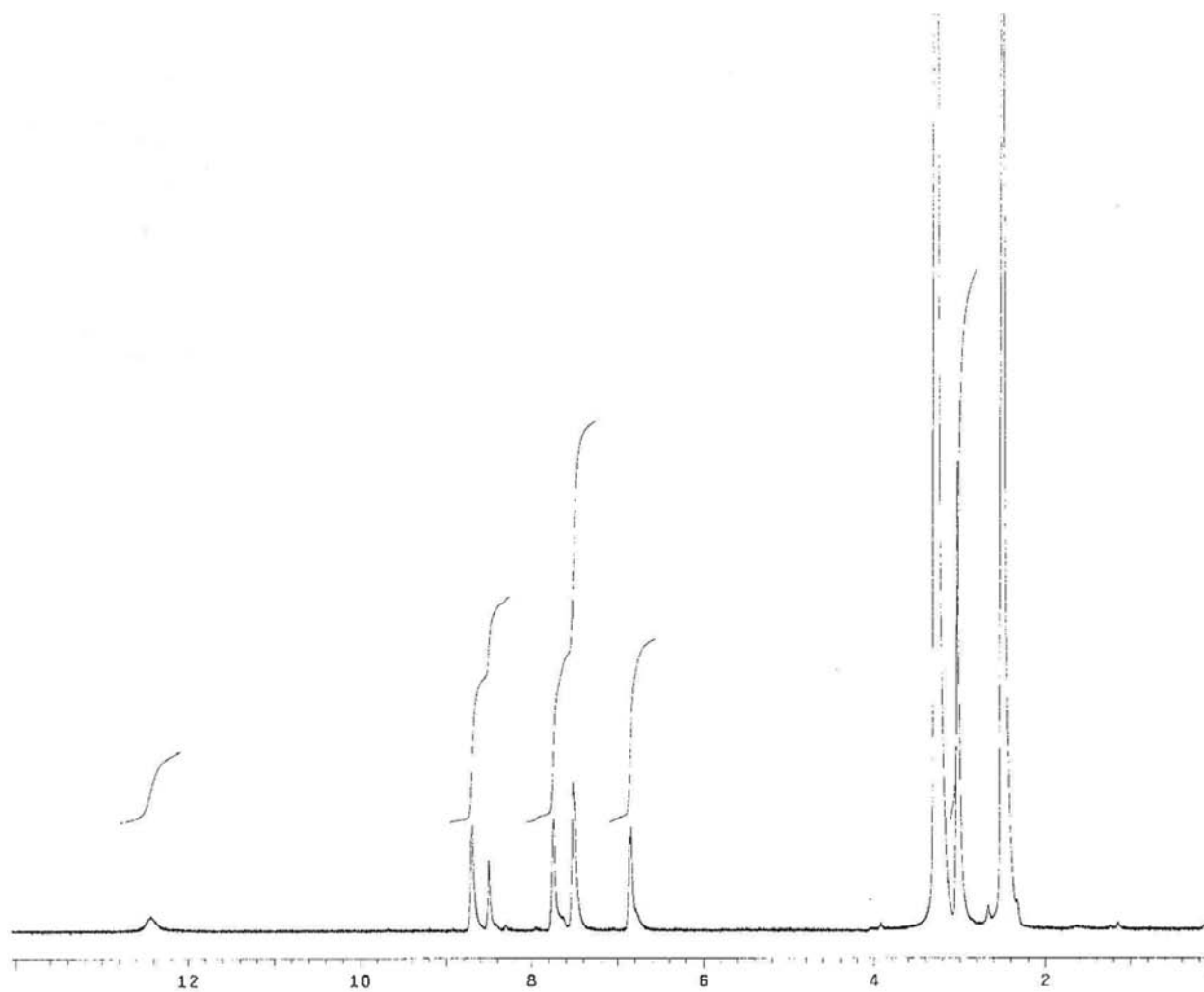


Figure 8S. ^1H NMR spectrum of 5-(4-(Dimethylamino)benzylidene)-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4c**) (δ , $\text{DMSO}-d_6$, 400 MHz)

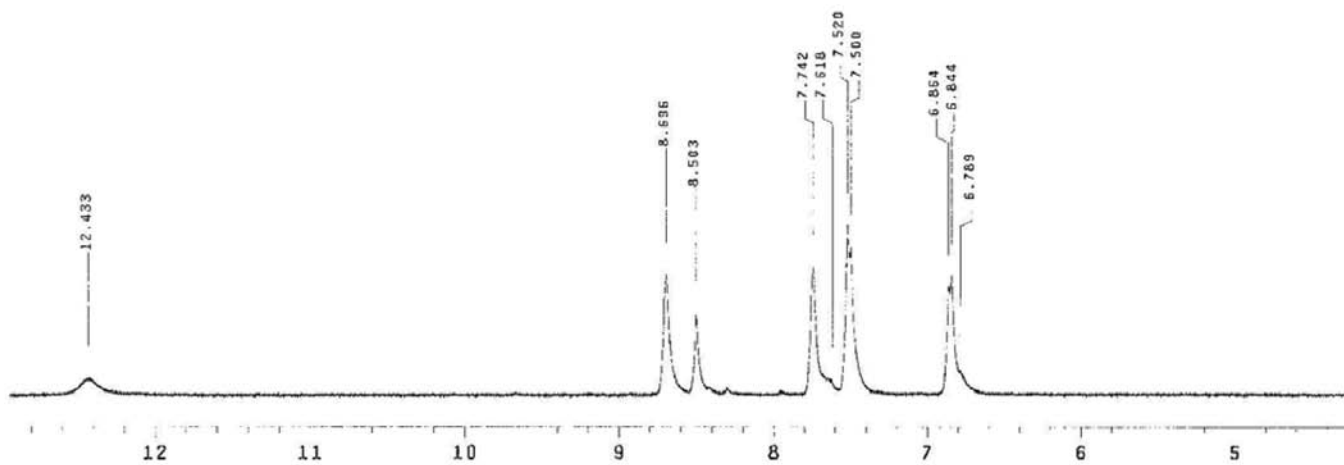


Figure 9S. Expansion of the ^1H NMR spectrum of 5-(4-(Dimethylamino)benzylidene)-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4c**) (δ , $\text{DMSO}-d_6$, 400 MHz)

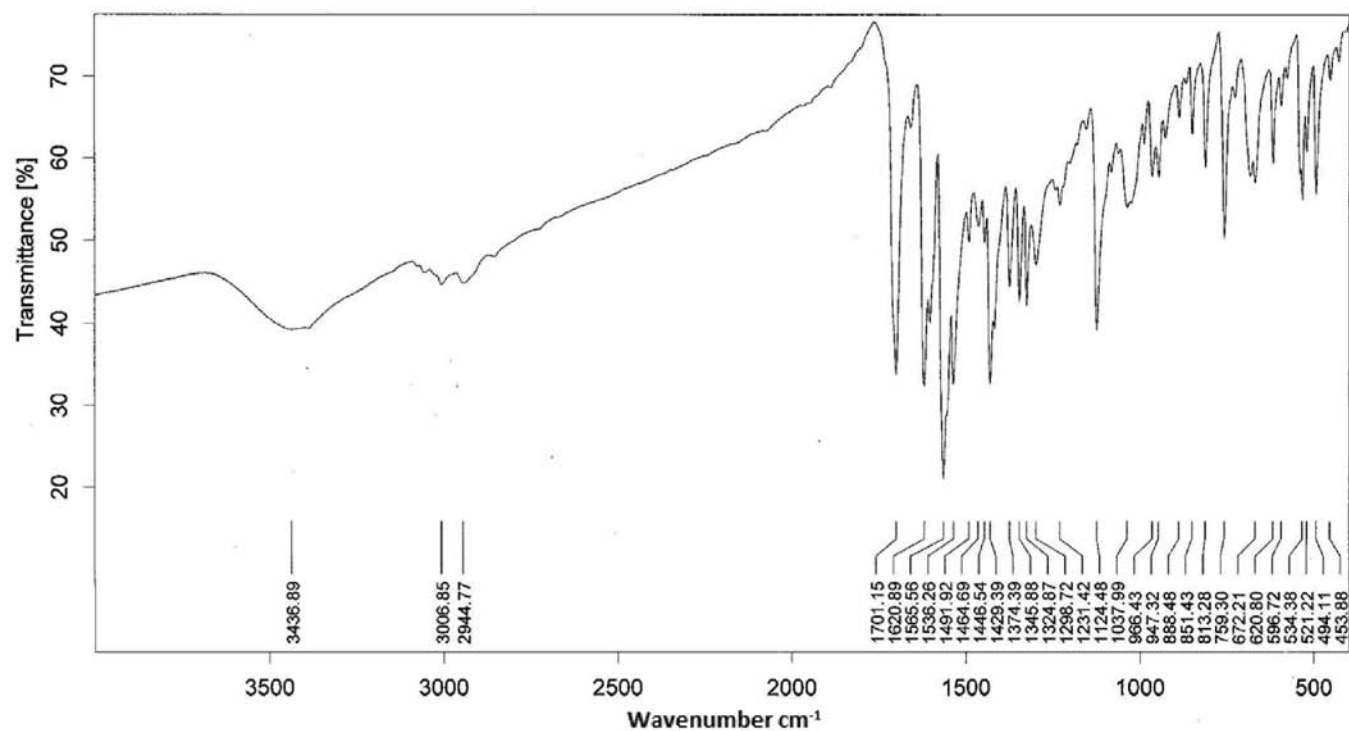


Figure 10S. IR spectrum of 5-Benzylidene-3-methyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4d**) (KBr, cm⁻¹)

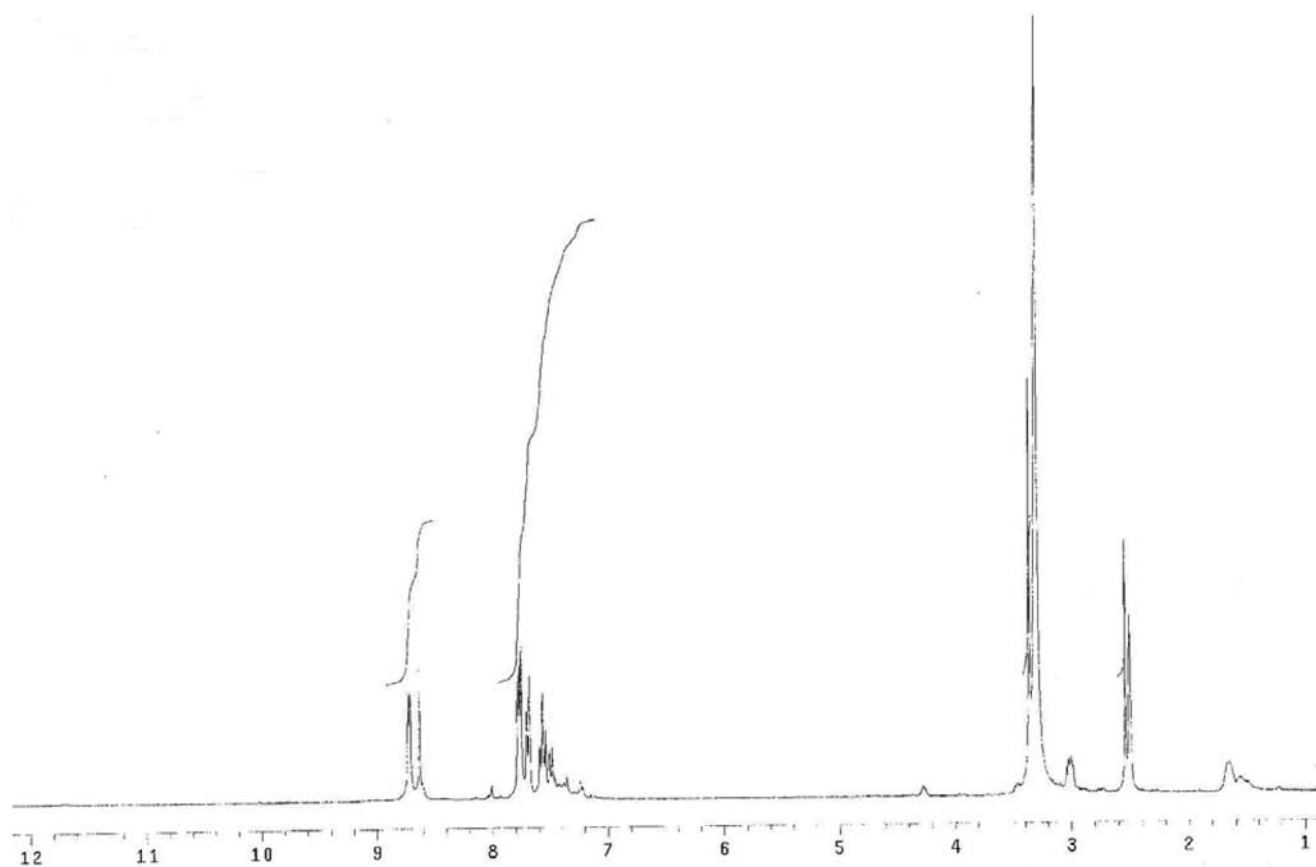


Figure 11S. ¹H NMR spectrum of 5-Benzylidene-3-methyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4d**) (δ, DMSO-d₆, 300 MHz)

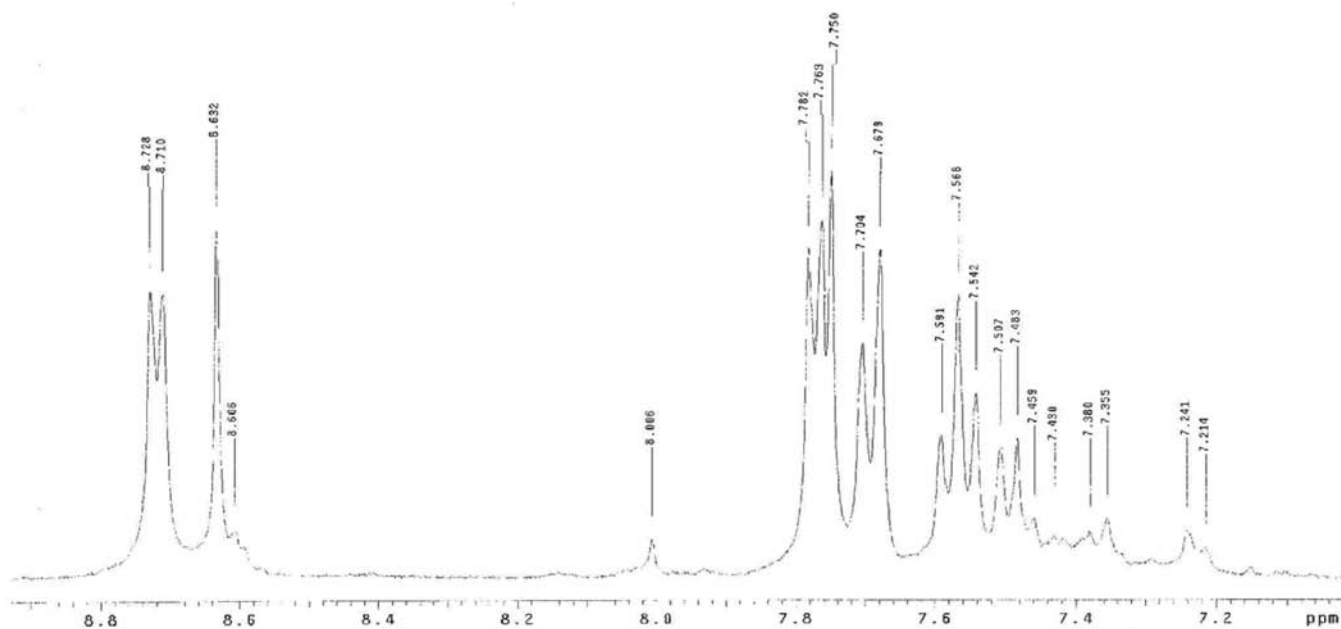


Figure 12S. Expansion of the ^1H NMR spectrum of 5-Benzylidene-3-methyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4d**) (δ , DMSO- d_6 , 300 MHz)

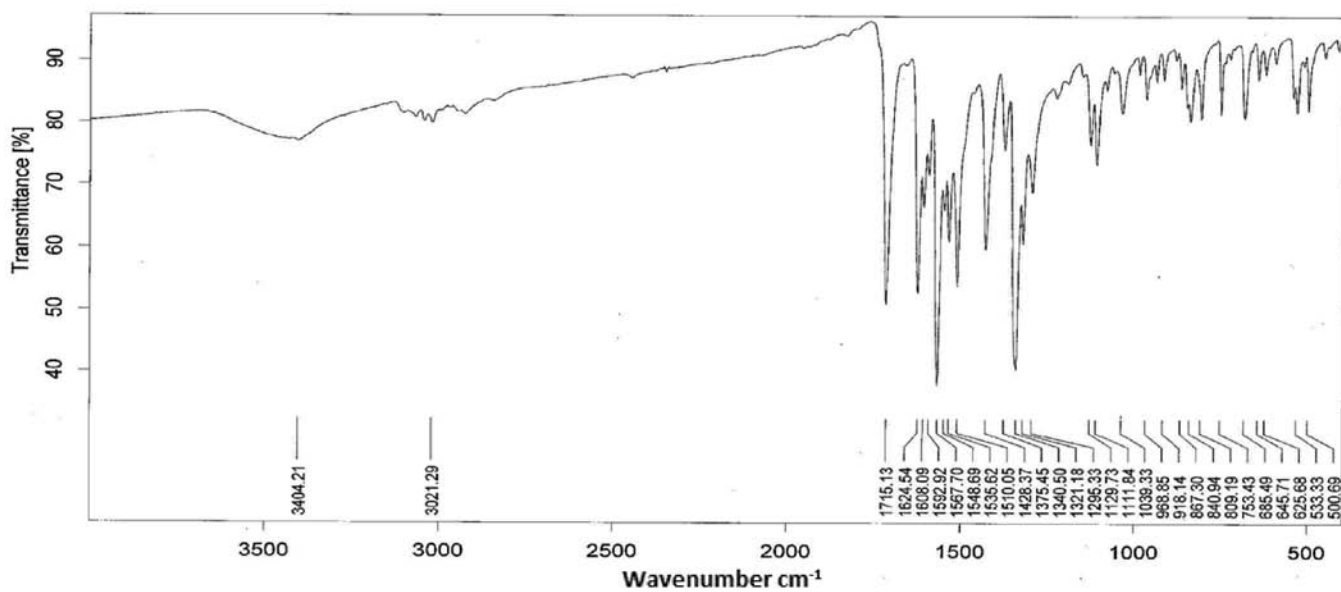


Figure 13S. IR spectrum of 5-(4-Nitrobenzylidene)-3-methyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4e**) (KBr, cm^{-1})

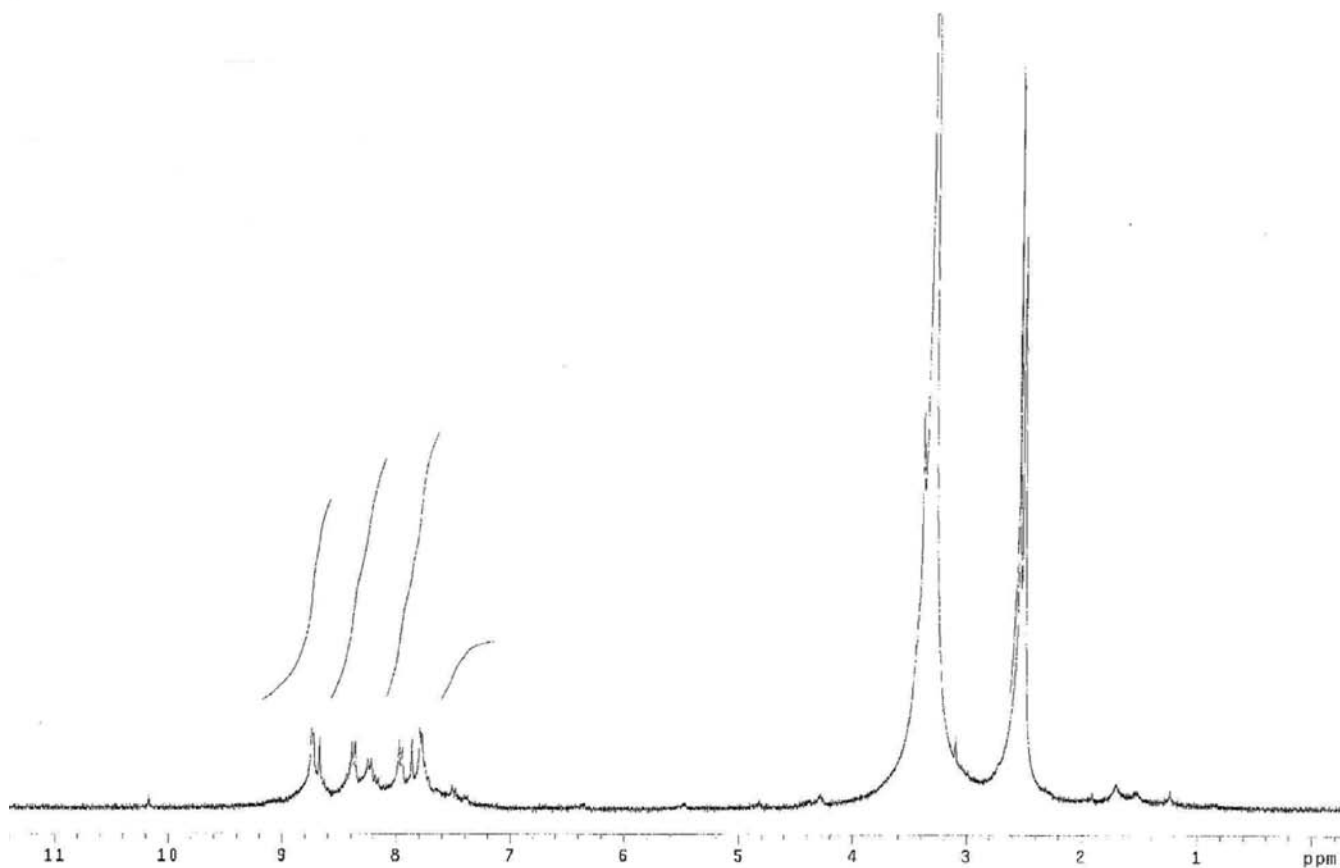


Figure 14S. ^1H NMR spectrum of 5-(4-Nitrobenzylidene)-3-methyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4e**) (δ , $\text{DMSO-}d_6$, 300 MHz)

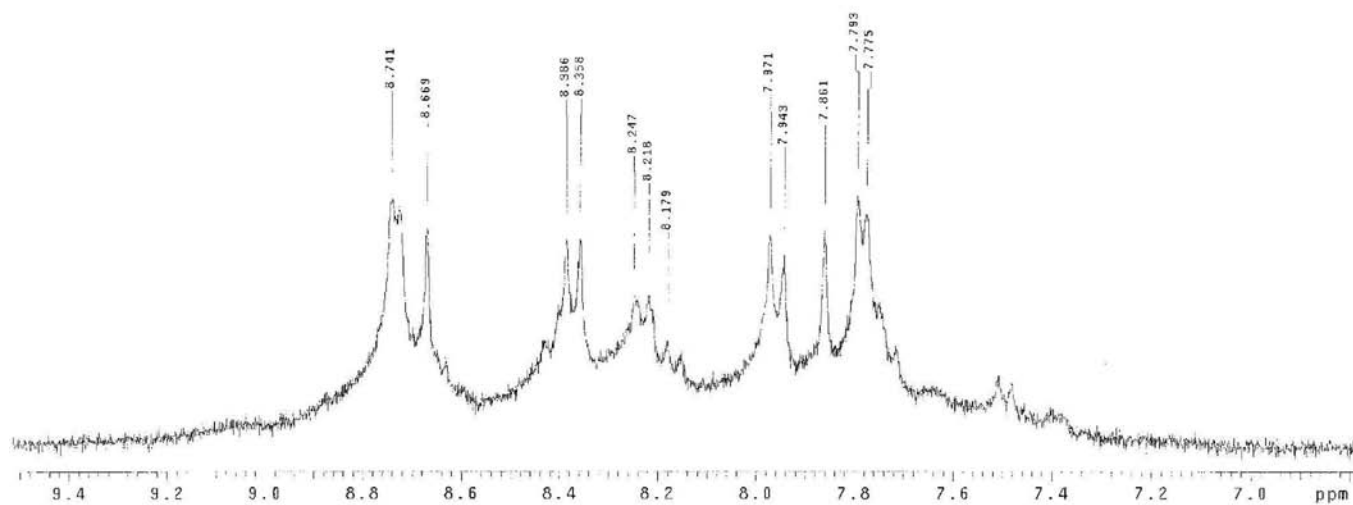


Figure 15S. Expansion of the ^1H NMR spectrum of 5-(4-Nitrobenzylidene)-3-methyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4e**) (δ , $\text{DMSO-}d_6$, 300 MHz)

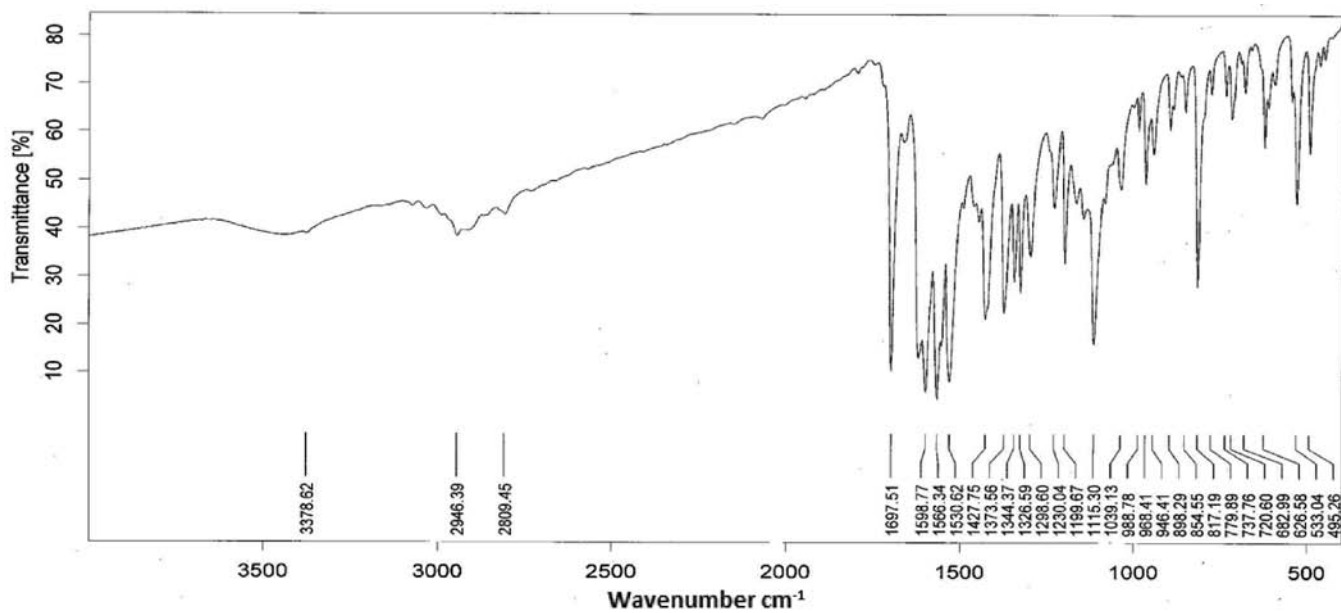


Figure 16S. IR spectrum of 5-(4-(Dimethylamino)benzylidene)-3-methyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4f**) (KBr, cm⁻¹)

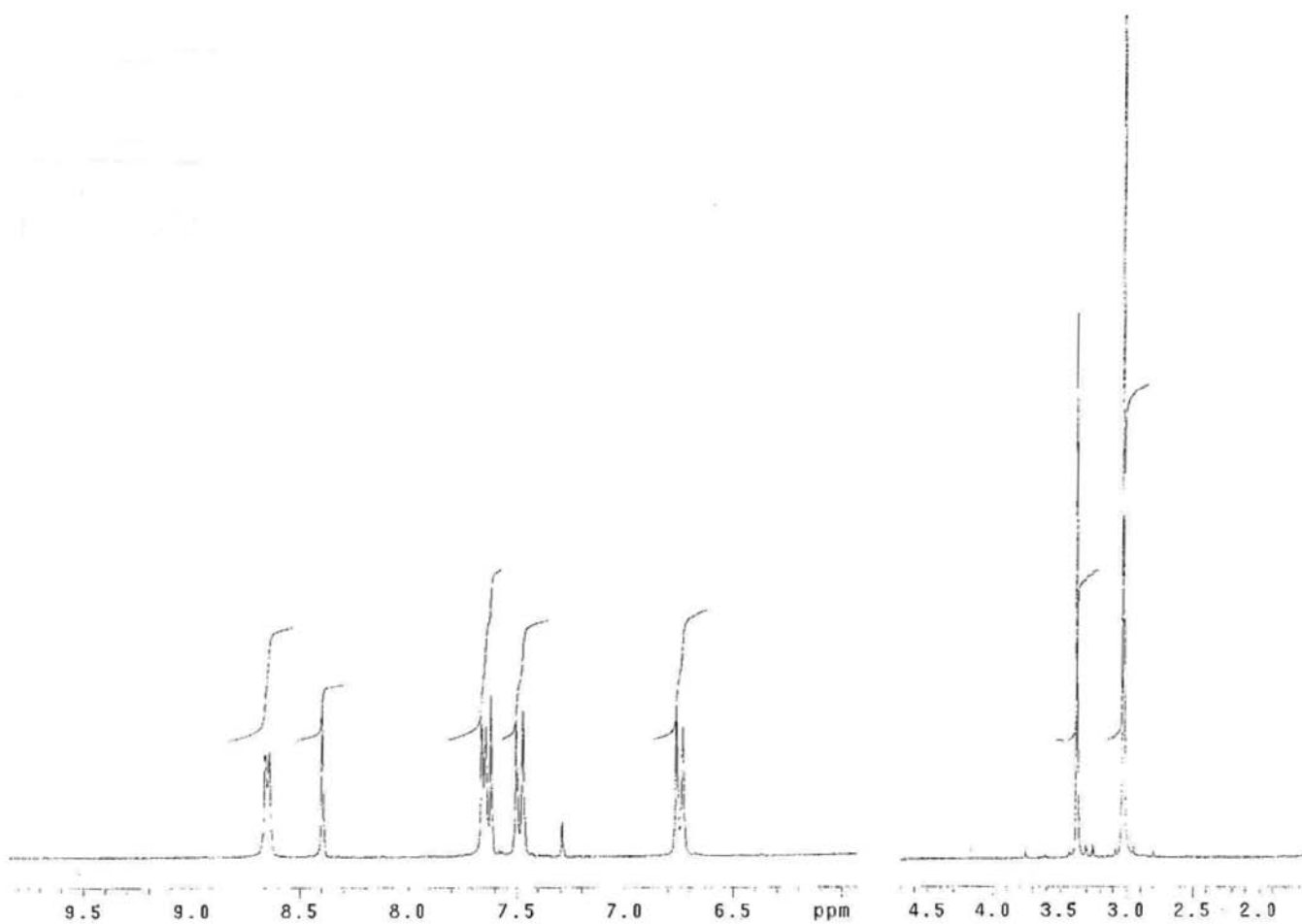


Figure 17S. ¹H NMR spectrum of 5-(4-(Dimethylamino)benzylidene)-3-methyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4f**) (δ, DMSO-d₆, 300 MHz)

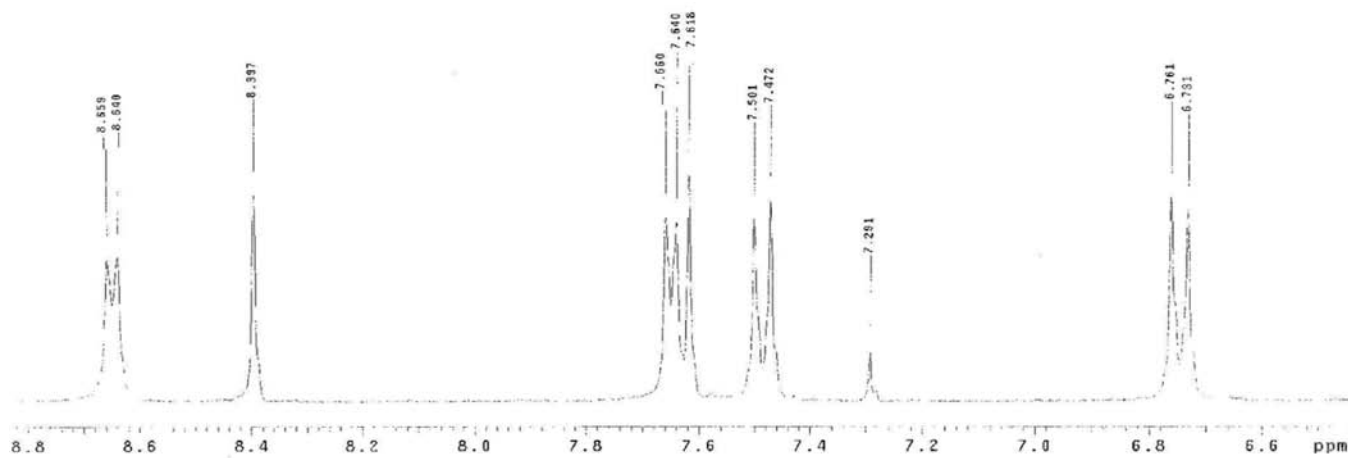


Figure 18S. Expansion of the ¹H NMR spectrum of 5-(4-(Dimethylamino)benzylidene)-3-methyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4f**) (δ, DMSO-*d*₆, 300 MHz)

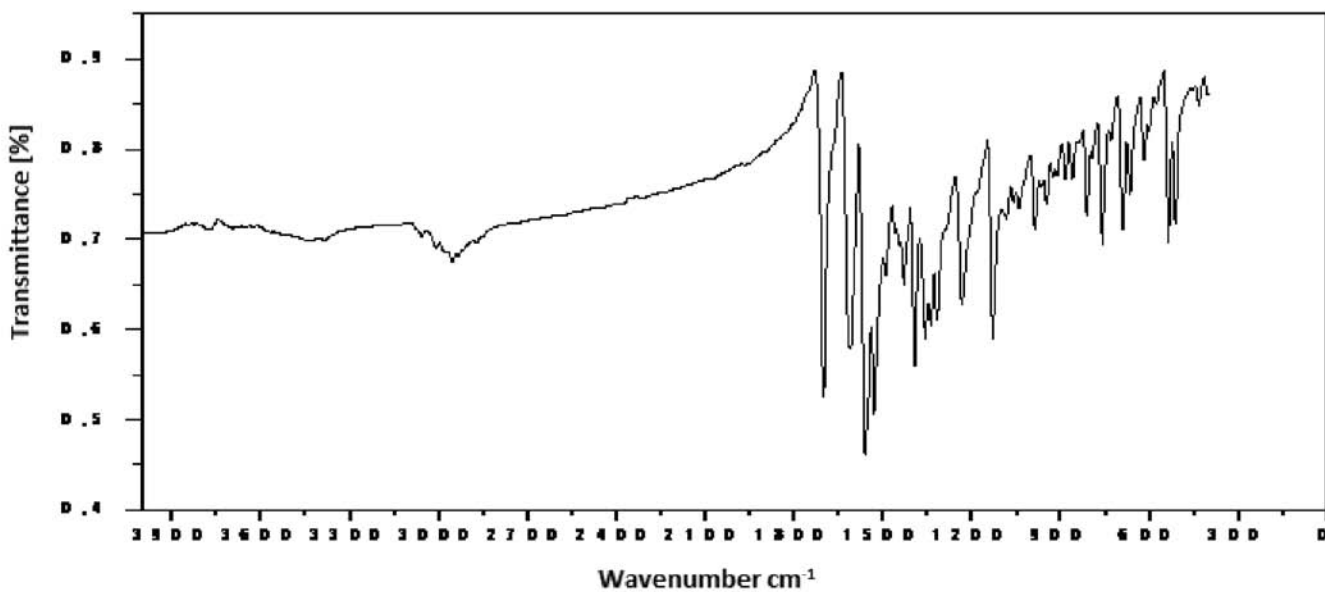


Figure 19S. IR spectrum of 5-Benzylidene-3-ethyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4g**) (KBr, cm⁻¹)

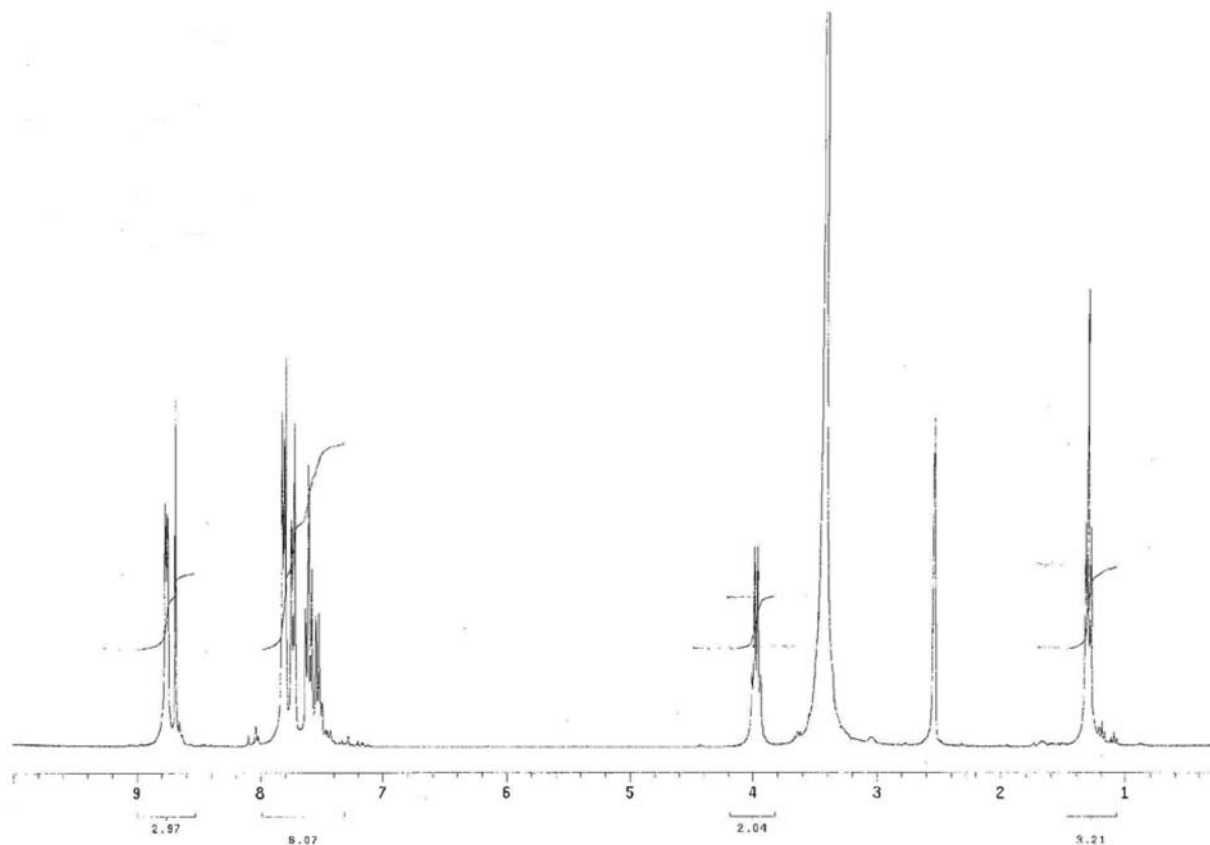


Figure 20S. ¹H NMR spectrum of 5-Benzylidene-3-ethyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4g**) (δ , DMSO-*d*₆, 300 MHz)

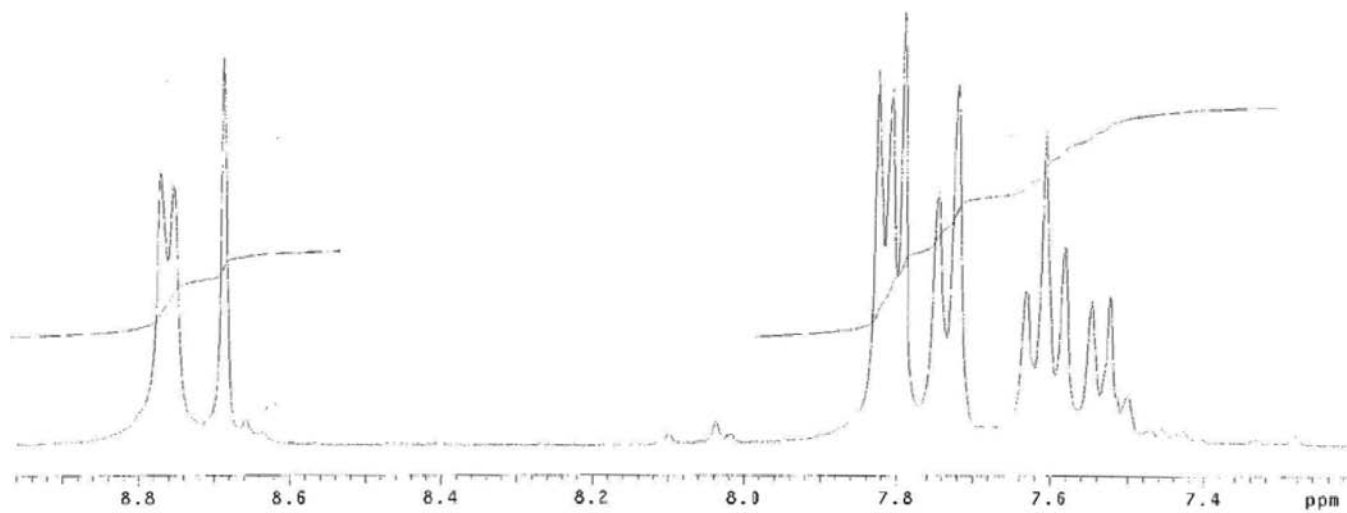


Figure 21S. Expansion of the ¹H NMR spectrum of 5-Benzylidene-3-ethyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4g**) (δ , DMSO-*d*₆, 300 MHz)

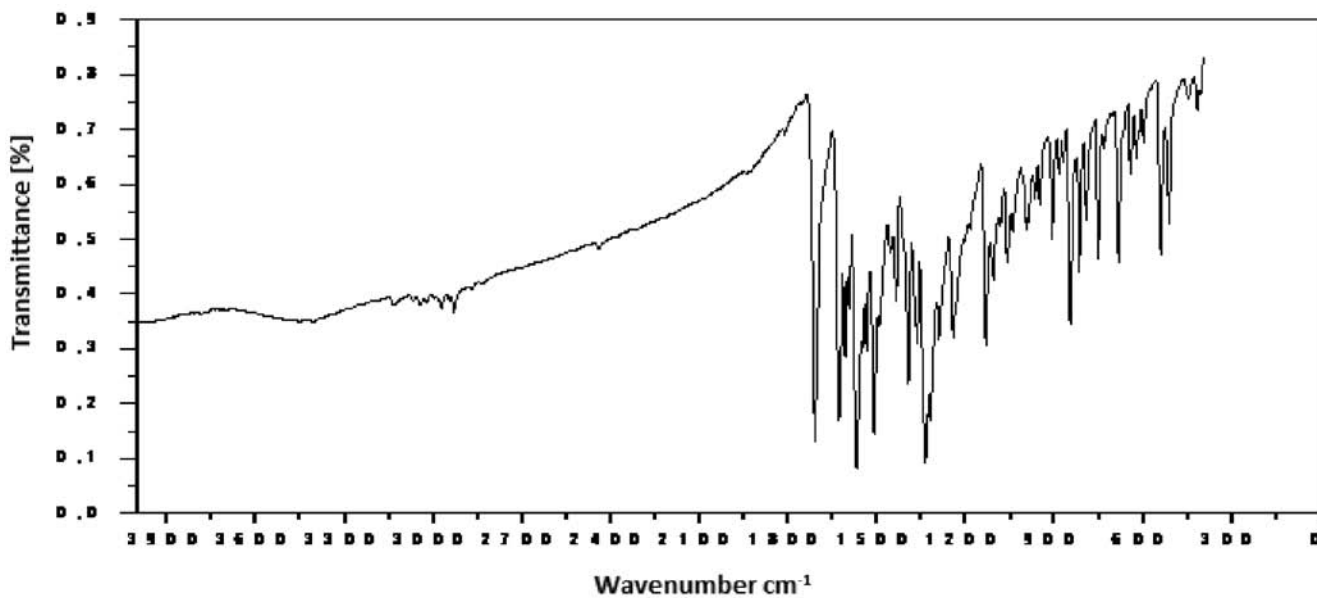


Figure 22S. IR spectrum of 5-(4-Nitrobenzylidene)-3-ethyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4h**) (KBr, cm^{-1})

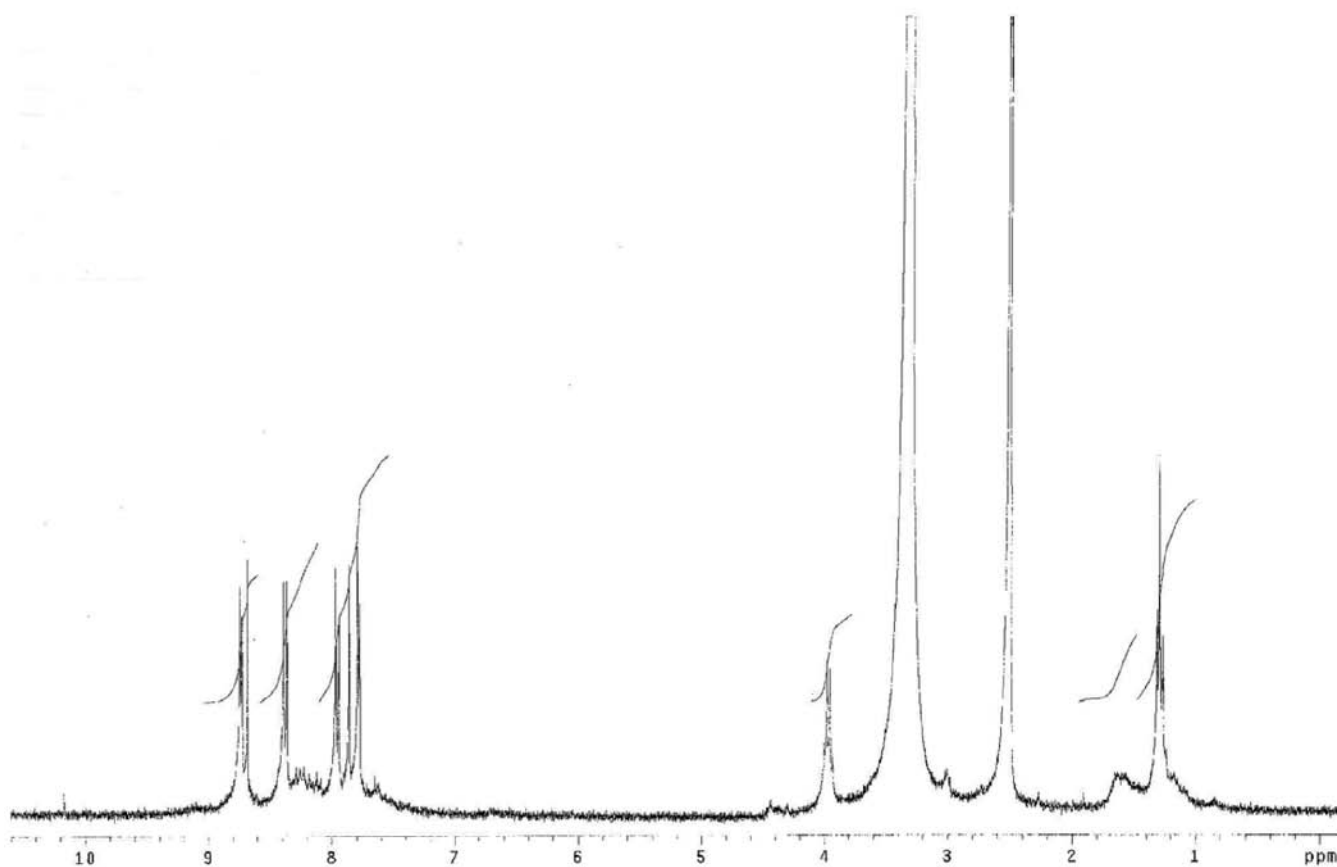


Figure 23S. ^1H NMR spectrum of 5-(4-Nitrobenzylidene)-3-ethyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4h**) (δ , $\text{DMSO}-d_6$, 300 MHz)

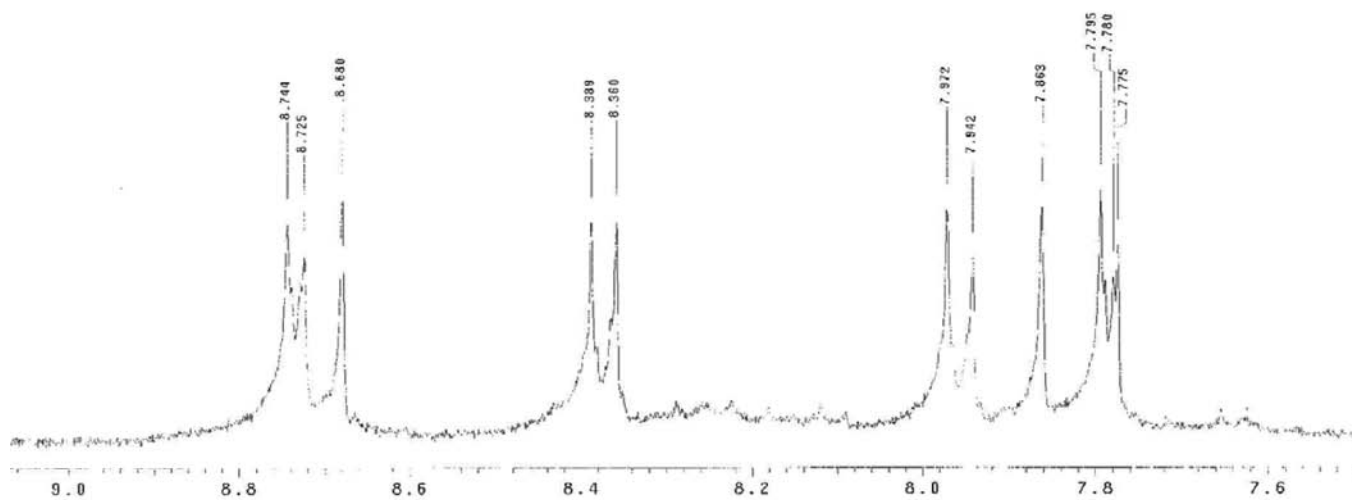


Figure 24S. Expansion of the ^1H NMR spectrum of 5-(4-Nitrobenzylidene)-3-ethyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4h**) (δ , $\text{DMSO}-d_6$, 300 MHz)

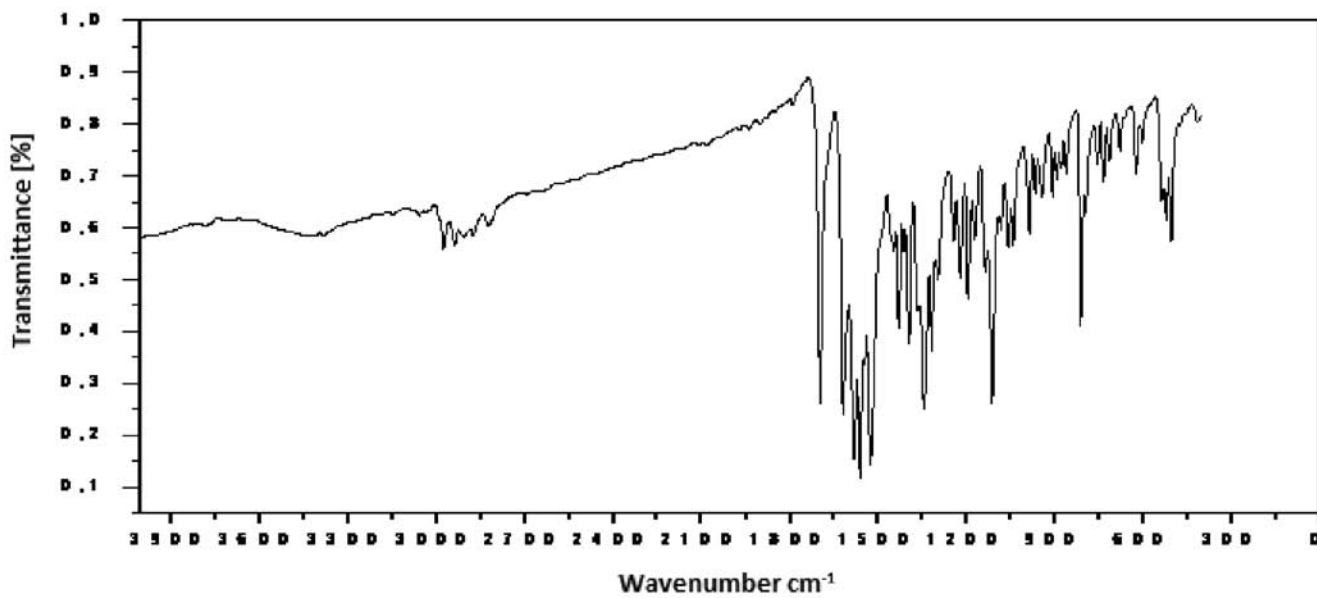


Figure 25S. IR spectrum of 5-(4-(Dimethylamino)benzylidene)-3-ethyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4i**) (KBr, cm^{-1})

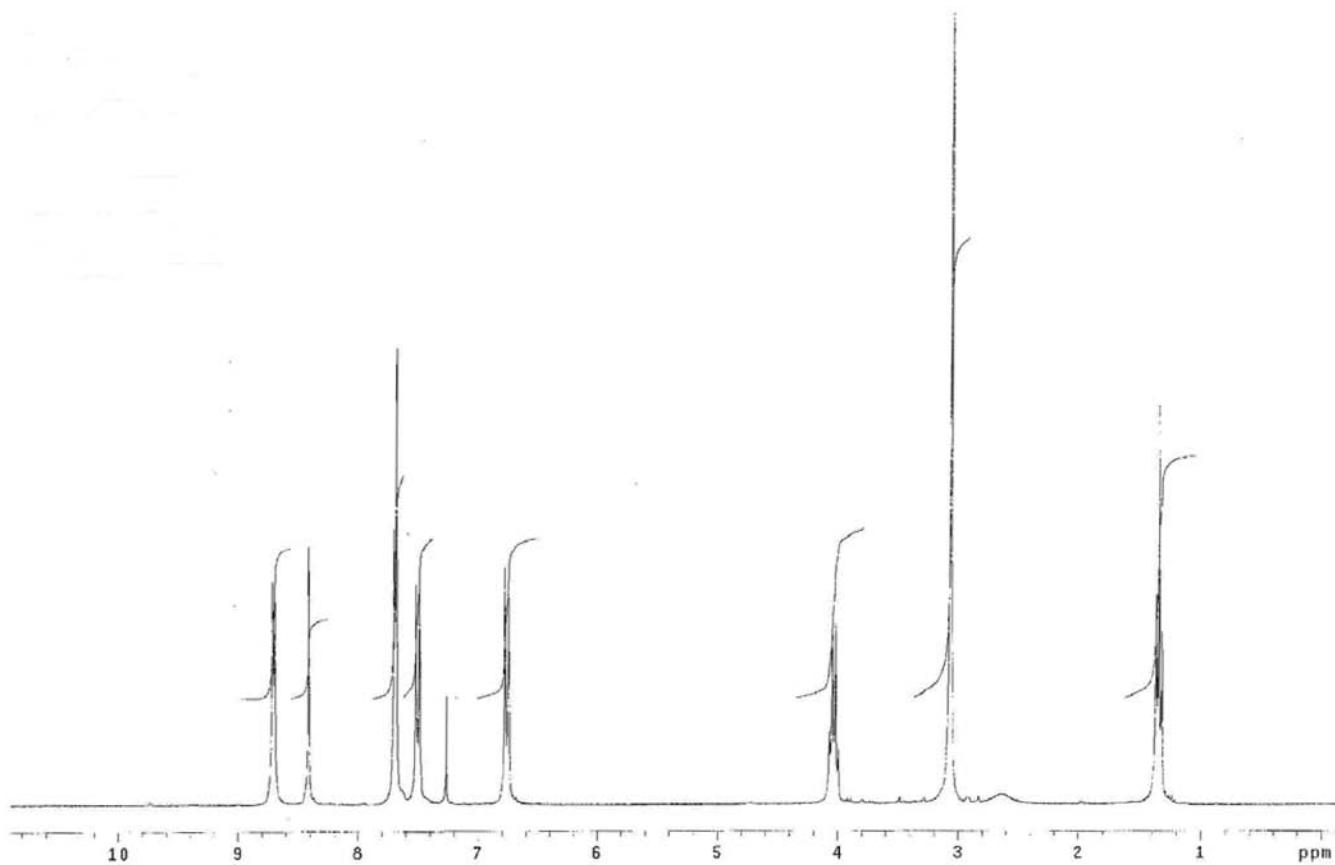


Figure 26S. ^1H NMR spectrum of 5-(4-(Dimethylamino)benzylidene)-3-ethyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4i**) (δ , CDCl_3 , 300 MHz)

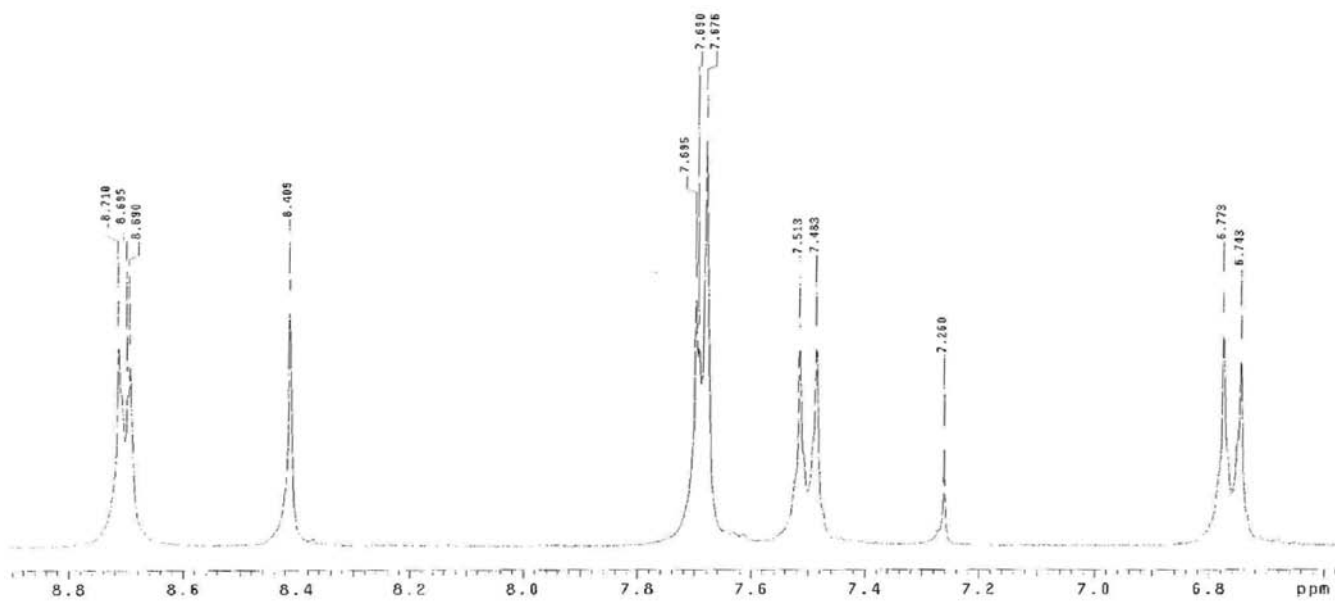


Figure 27S. Expansion of the ^1H NMR spectrum of 5-(4-(Dimethylamino)benzylidene)-3-ethyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4i**) (δ , CDCl_3 , 300 MHz)

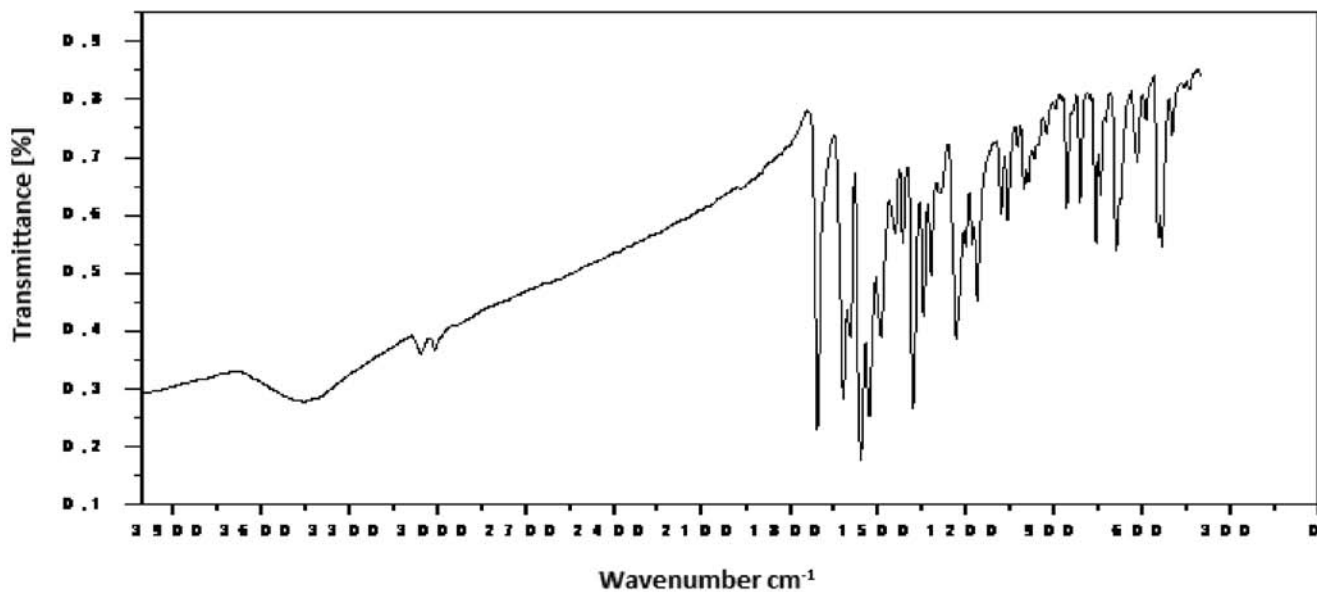


Figure 28S. IR spectrum of 5-Benzylidene-3-phenyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4j**) (KBr, cm^{-1})

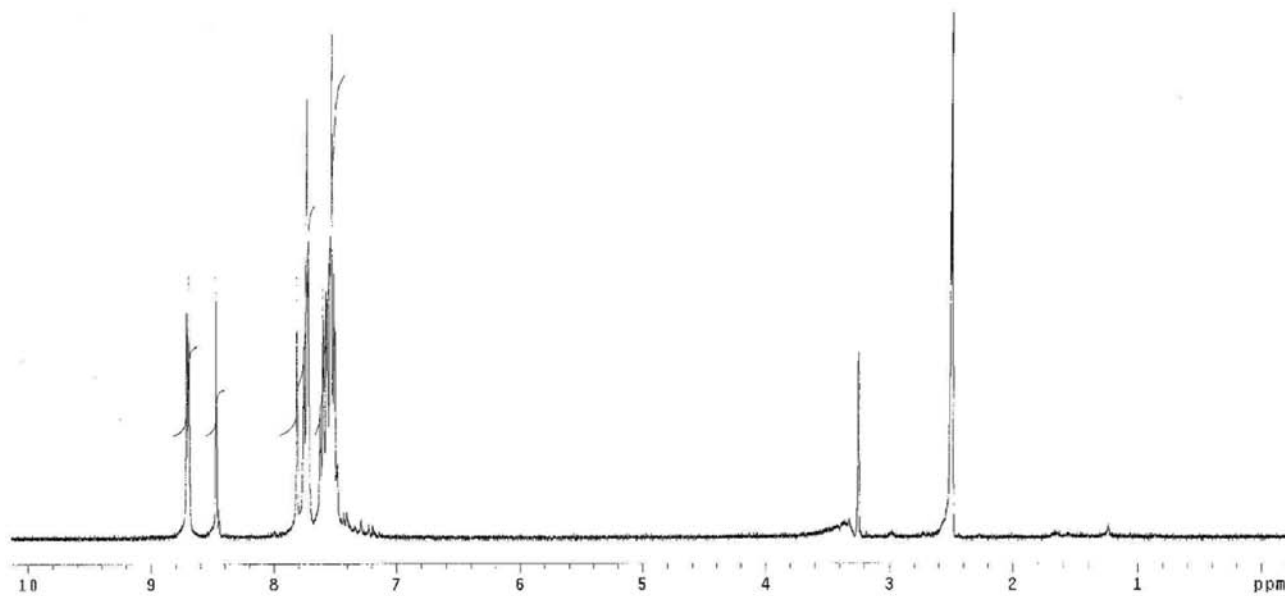


Figure 29S. ^1H NMR spectrum of 5-Benzylidene-3-phenyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4j**) (δ , $\text{DMSO}-d_6$, 300 MHz)

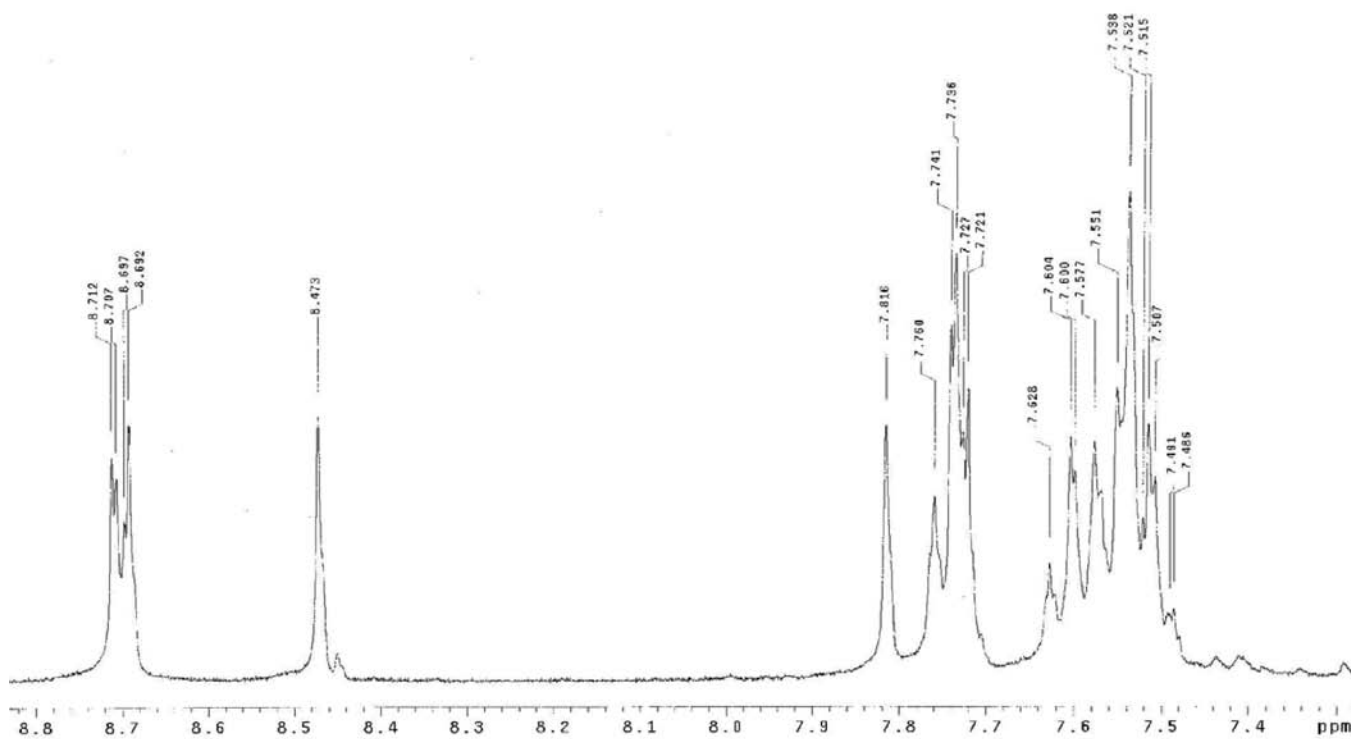


Figure 30S. Expansion of the ^1H NMR spectrum of 5-Benzylidene-3-phenyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4j**) (δ , DMSO-d_6 , 300 MHz)

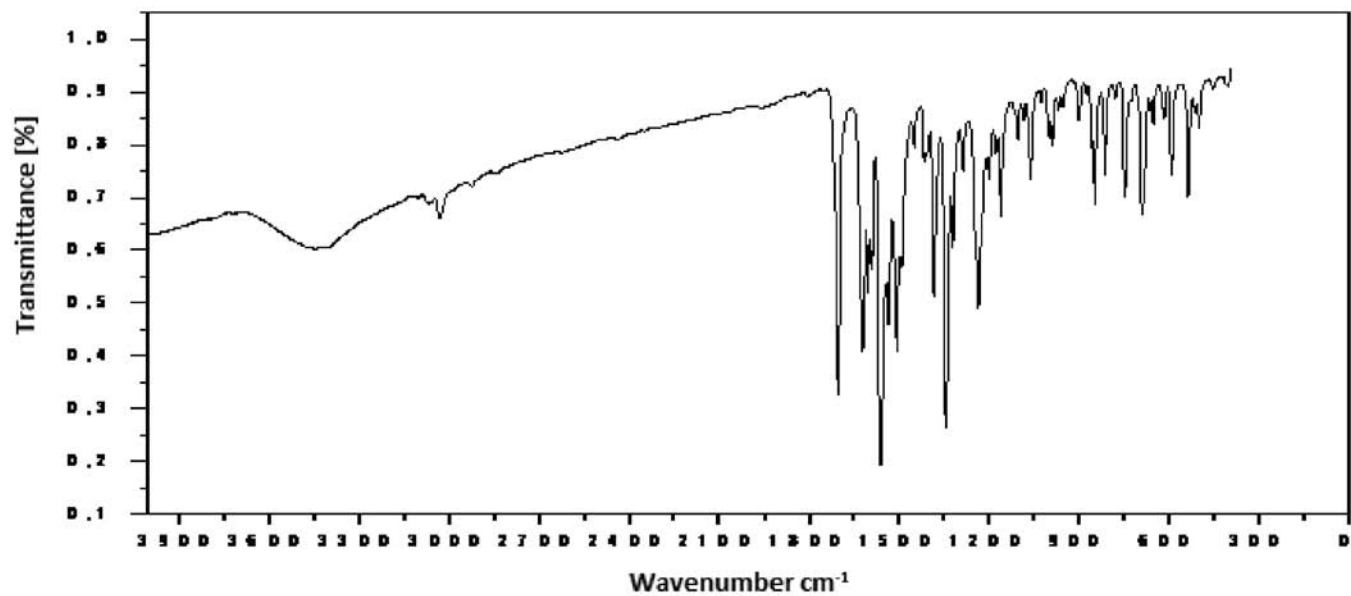


Figure 31S. IR spectrum of 5-(4-Nitrobenzylidene)-3-phenyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4k**) (KBr , cm^{-1})

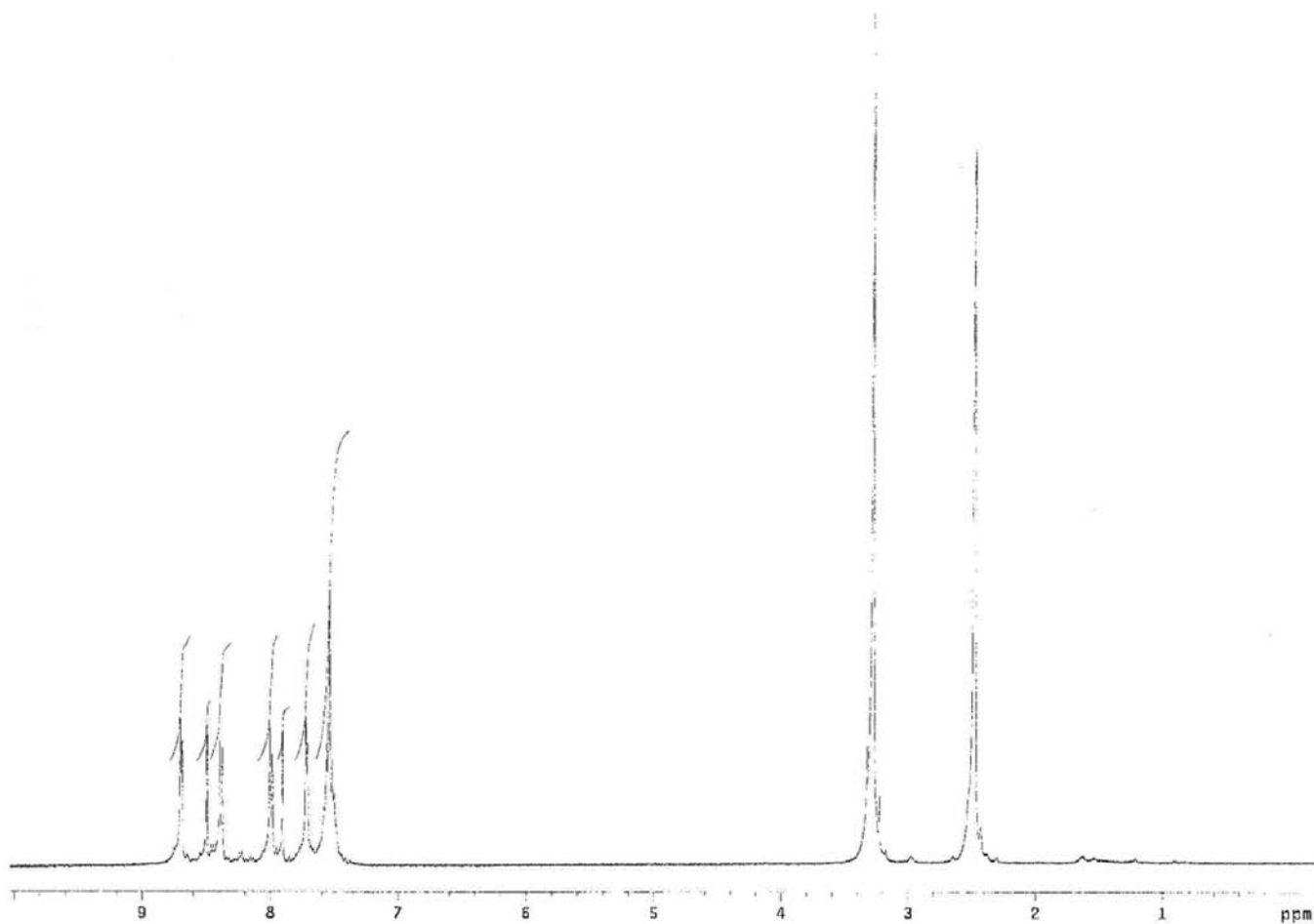


Figure 32S. ^1H NMR spectrum of 5-(4-Nitrobenzylidene)-3-phenyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4k**) (δ , $\text{DMSO-}d_6$, 300 MHz)

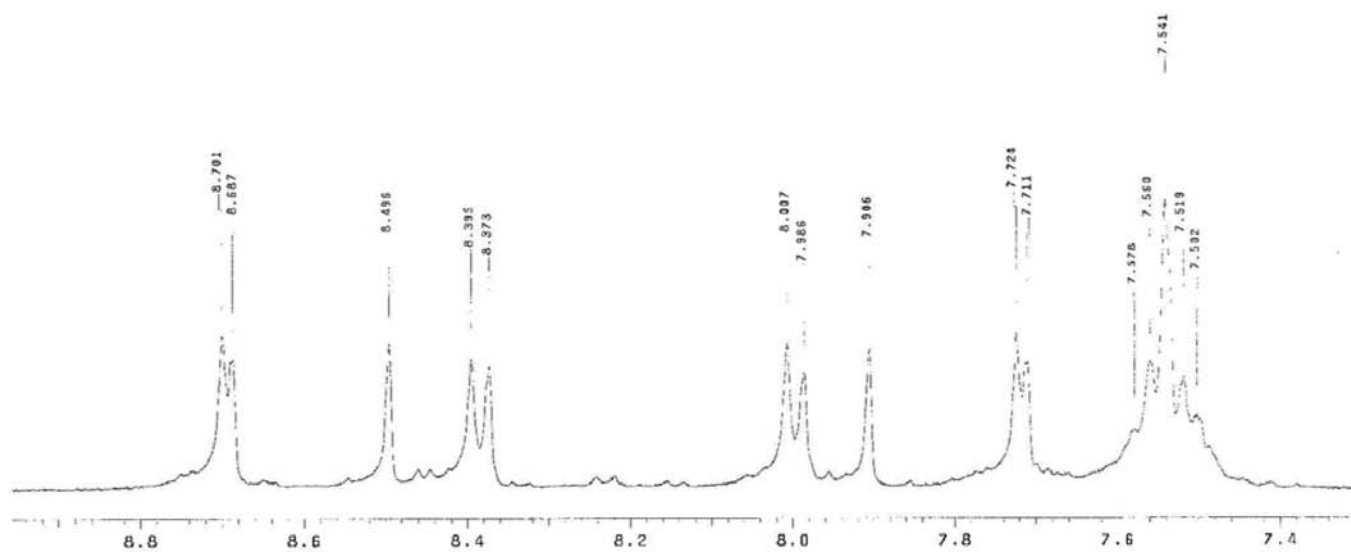


Figure 33S. Expansion of the ^1H NMR spectrum of 5-(4-Nitrobenzylidene)-3-phenyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4k**) (δ , $\text{DMSO-}d_6$, 300 MHz)

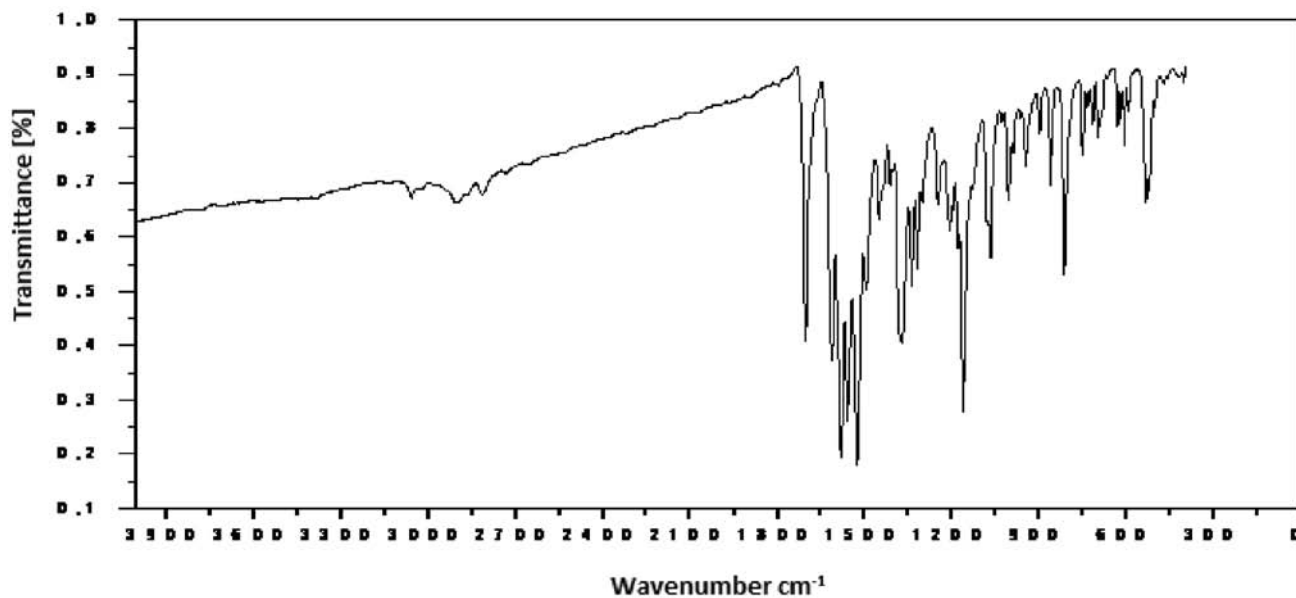


Figure 34S. IR spectrum of 5-(4-(Dimethylamino)benzylidene)-3-phenyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4I**) (KBr, cm^{-1})

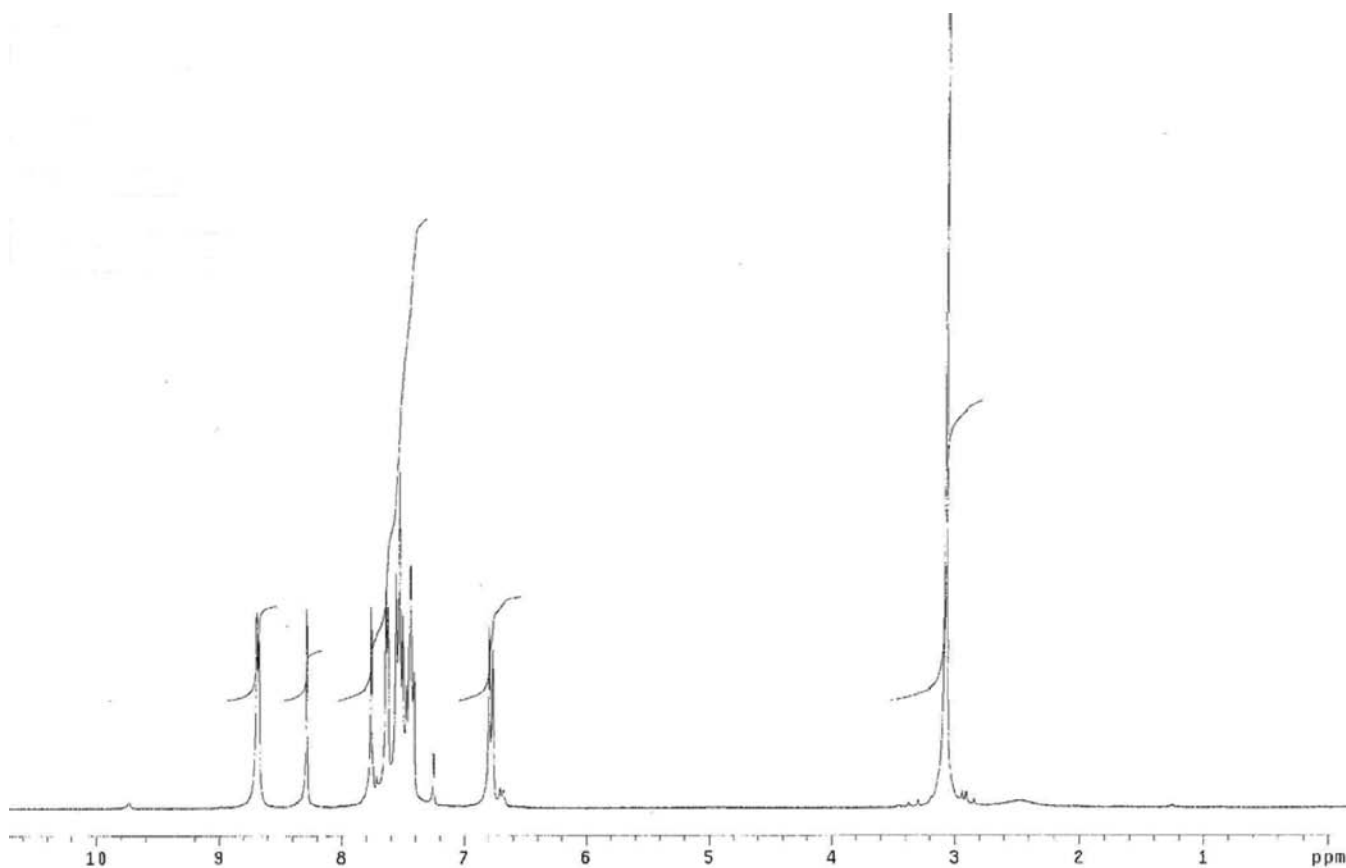


Figure 35S. ^1H NMR spectrum of 5-(4-(Dimethylamino)benzylidene)-3-phenyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4I**) (δ , CDCl_3 , 300 MHz)

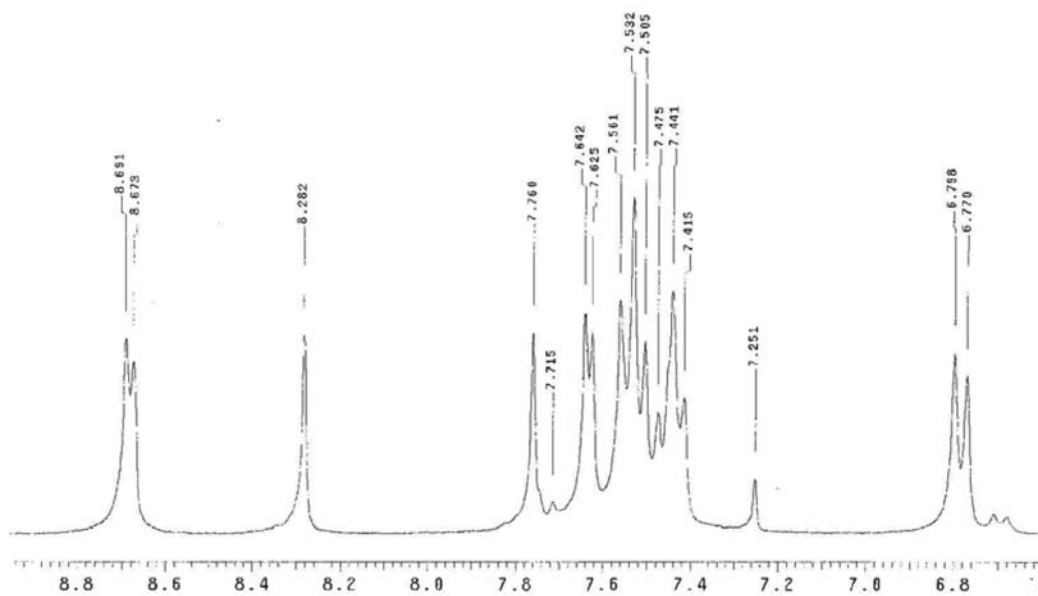


Figure 36S. Expansion of the ¹H NMR spectrum of 5-(4-(Dimethylamino)benzylidene)-3-phenyl-2-(2-(pyridin-4-ylmethylene)hydrazono)thiazolidin-4-one (**4l**) (δ, CDCl₃, 300 MHz)