

*Supplementary Material:*

## **Probing the Anticancer Action of Novel Ferrocene Analogues of MNK Inhibitors.**

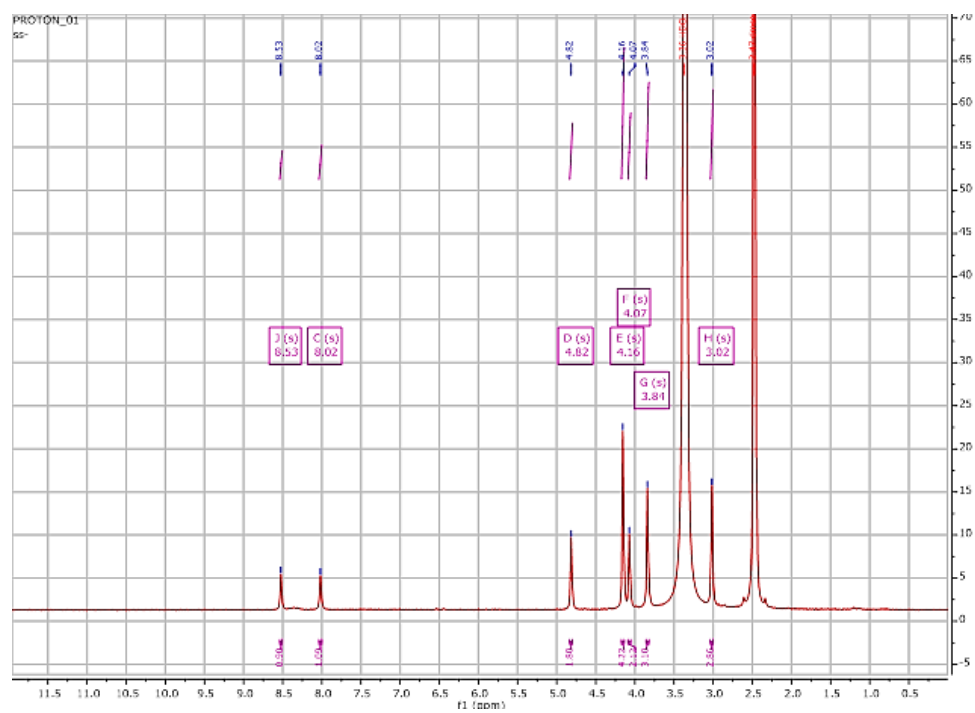
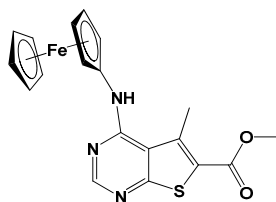
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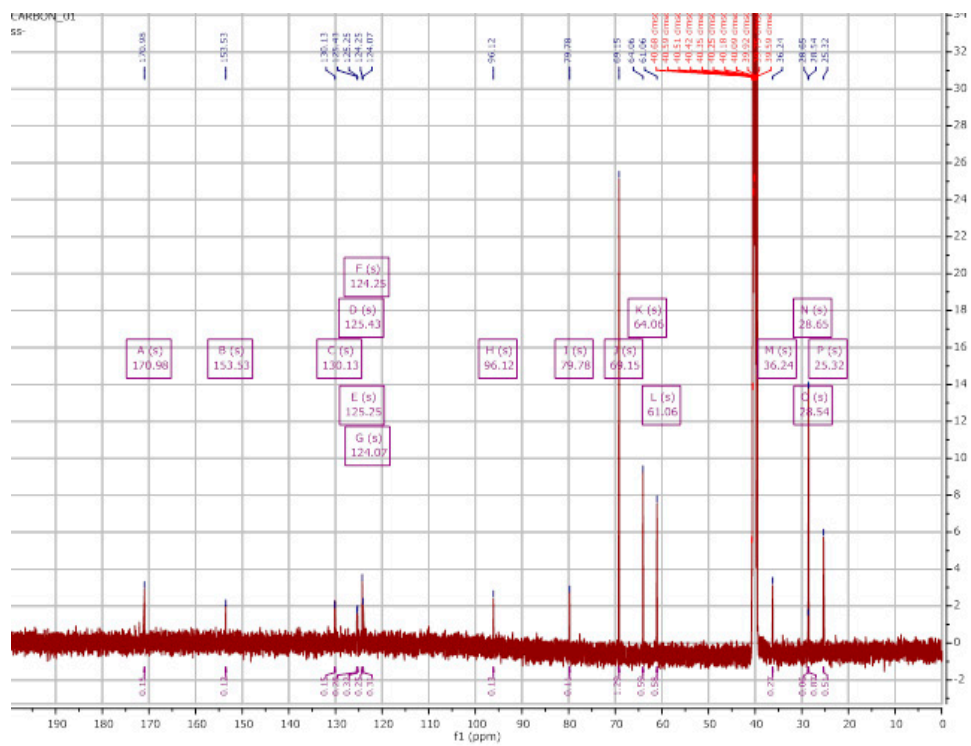
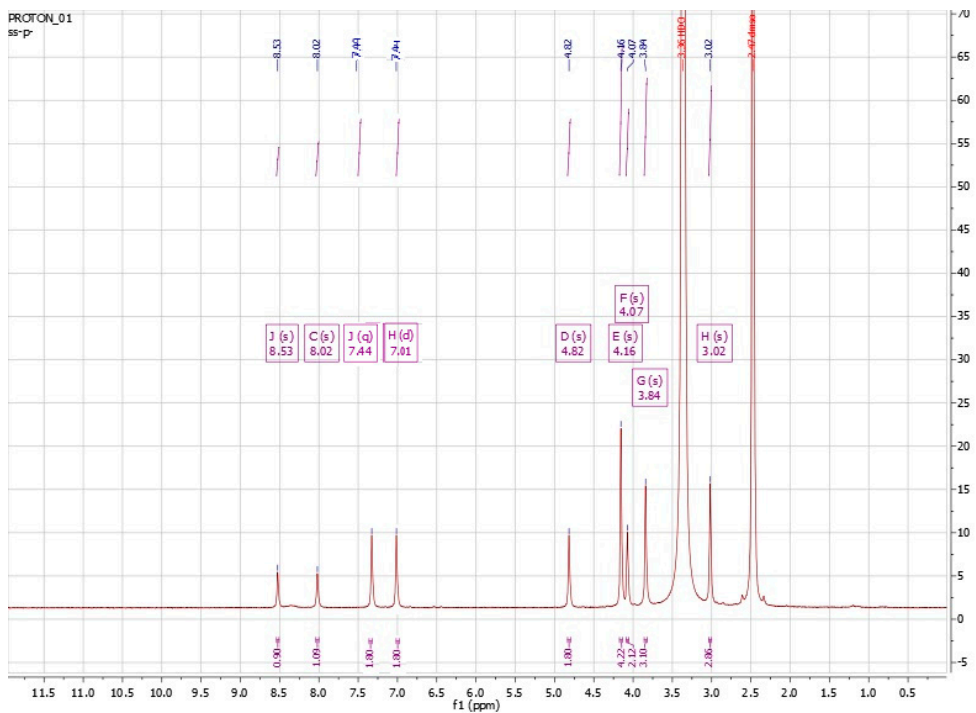
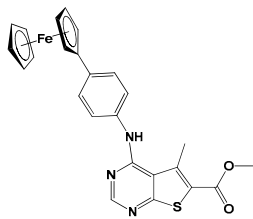
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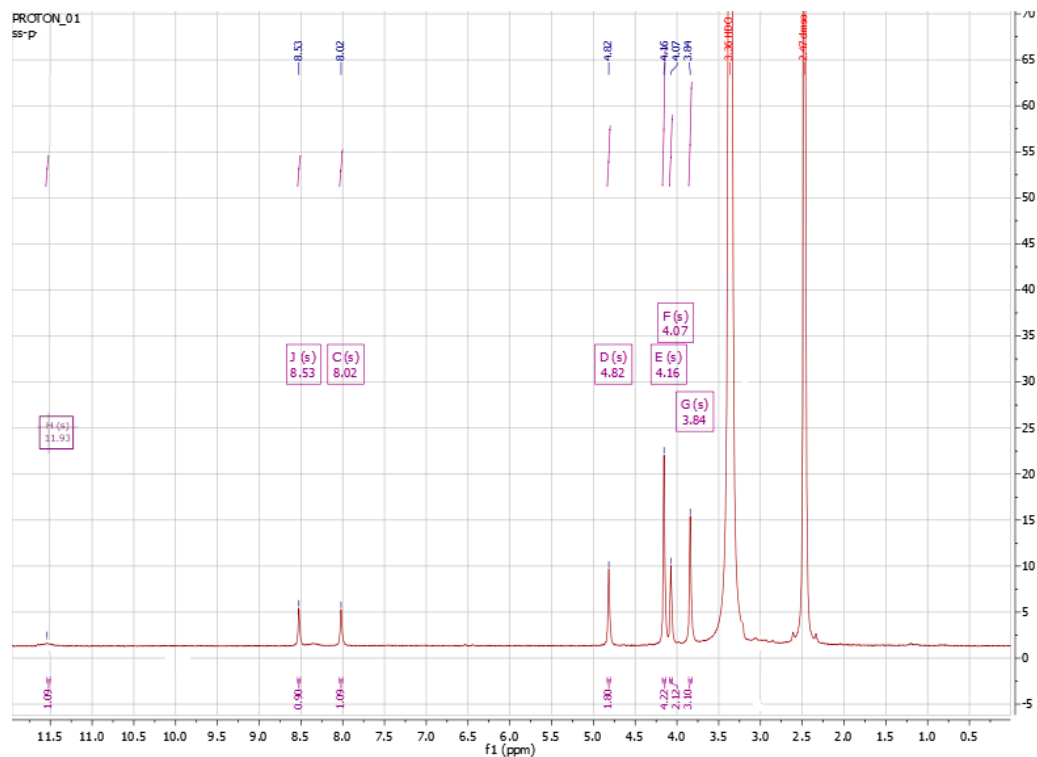
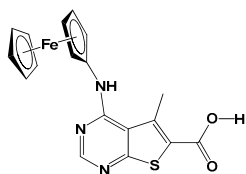
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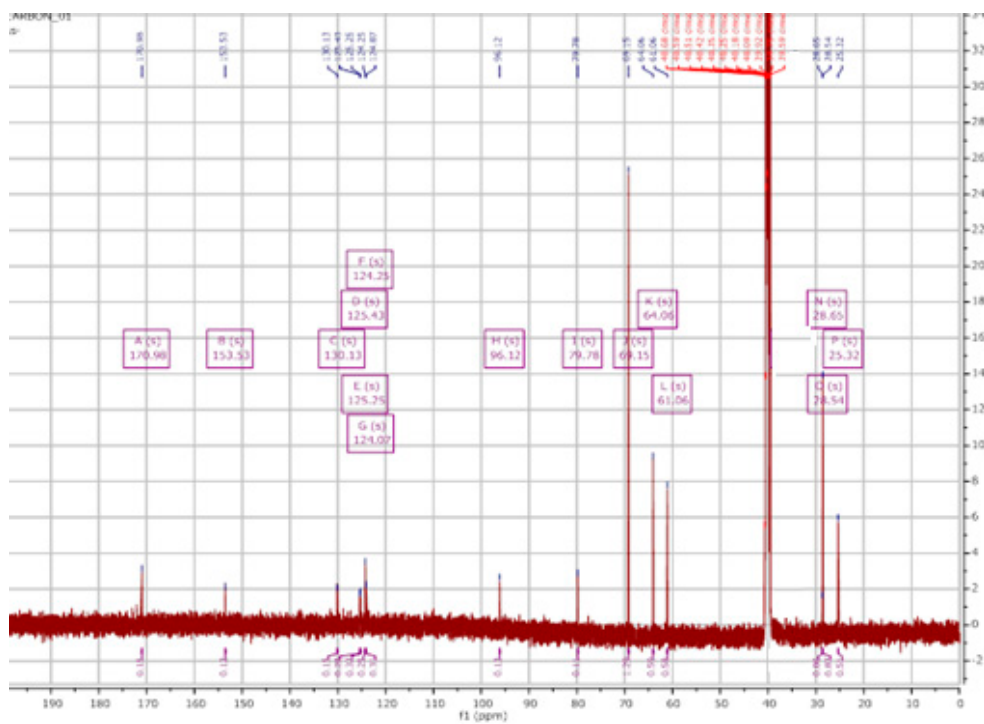
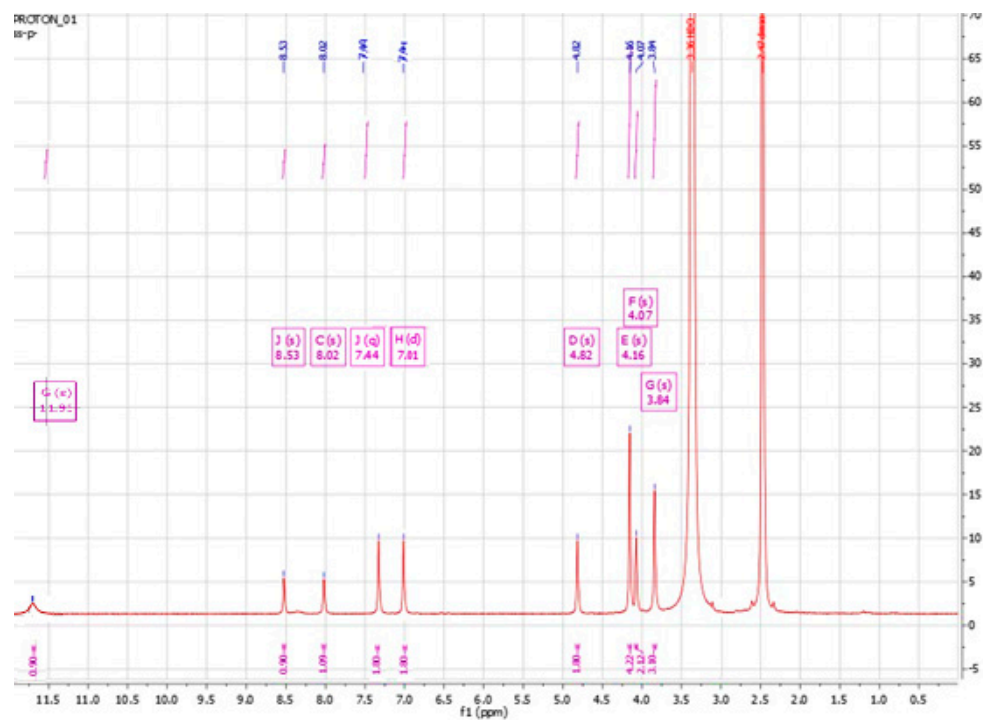
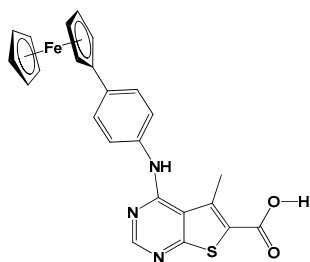
**Figure S1.** Scanned  $^1\text{H}$ - and  $^{13}\text{C}$ -NMR spectra of Methyl 5-methyl-4-(ferrocenylamino)thieno[2,3-d]pyrimidine-6-carboxylate (**2**).



**Figure S2.** Scanned  $^1\text{H}$ - and  $^{13}\text{C}$ -NMR spectra of Methyl 4-(ferrocenyl-phenyl-4-ylamino)-5-methylthieno[2,3-d]pyrimidine-6-carboxylate (**4**).



**Figure S3.** Scanned  $^1\text{H}$ - and  $^{13}\text{C}$ -NMR spectra of 5-methyl-4-(phenylamino)thieno[2,3-d]pyrimidine-6-carboxylic acid (**3**).



**Figure S4.** Scanned  $^1\text{H}$ - and  $^{13}\text{C}$ -NMR spectra of 4-(Ferrocenyl-phenyl-4-ylamino)-5-methylthieno[2,3-d]pyrimidine-6-carboxylic acid (5).

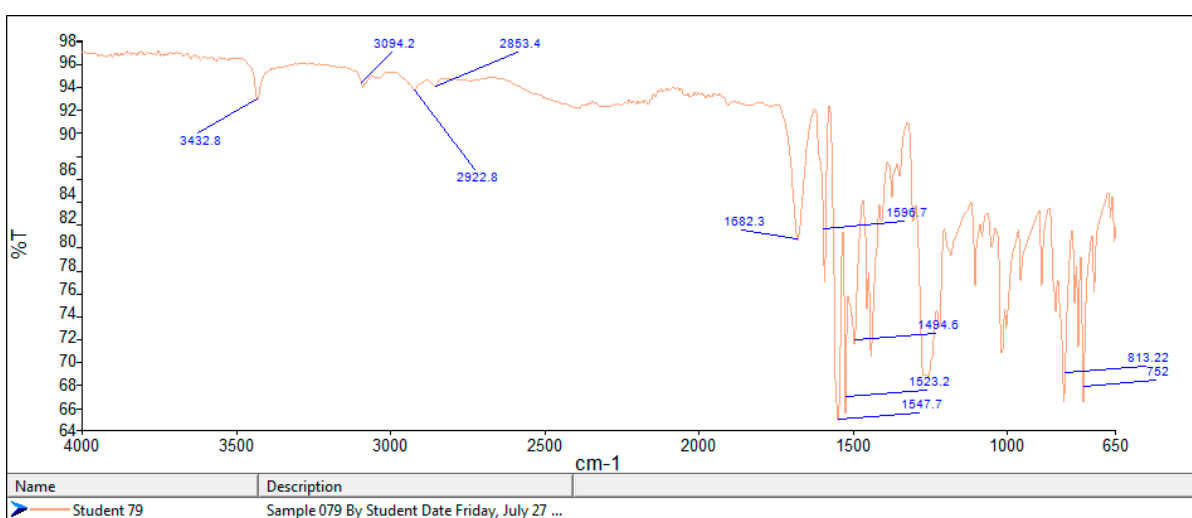
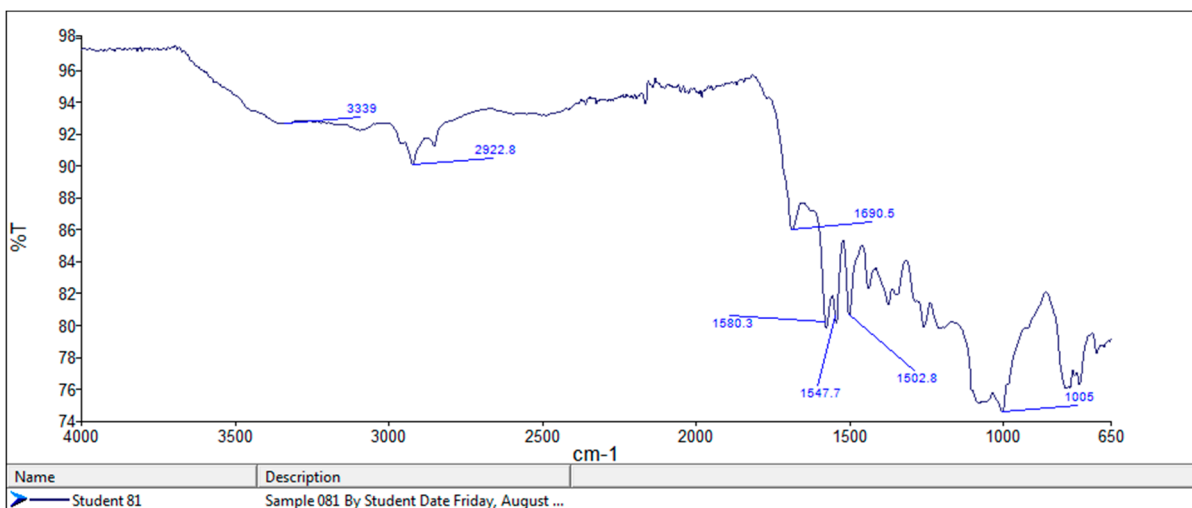


Figure S5. IR spectra of 3 and 5.