

SUPPORTING INFORMATION

Synthesis and Biological Activity of (2-Substituted-4-methylthiazol-5-yl) (4-substituted piperazin-1-yl)methanone Derivatives

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Spectral data of representative compounds

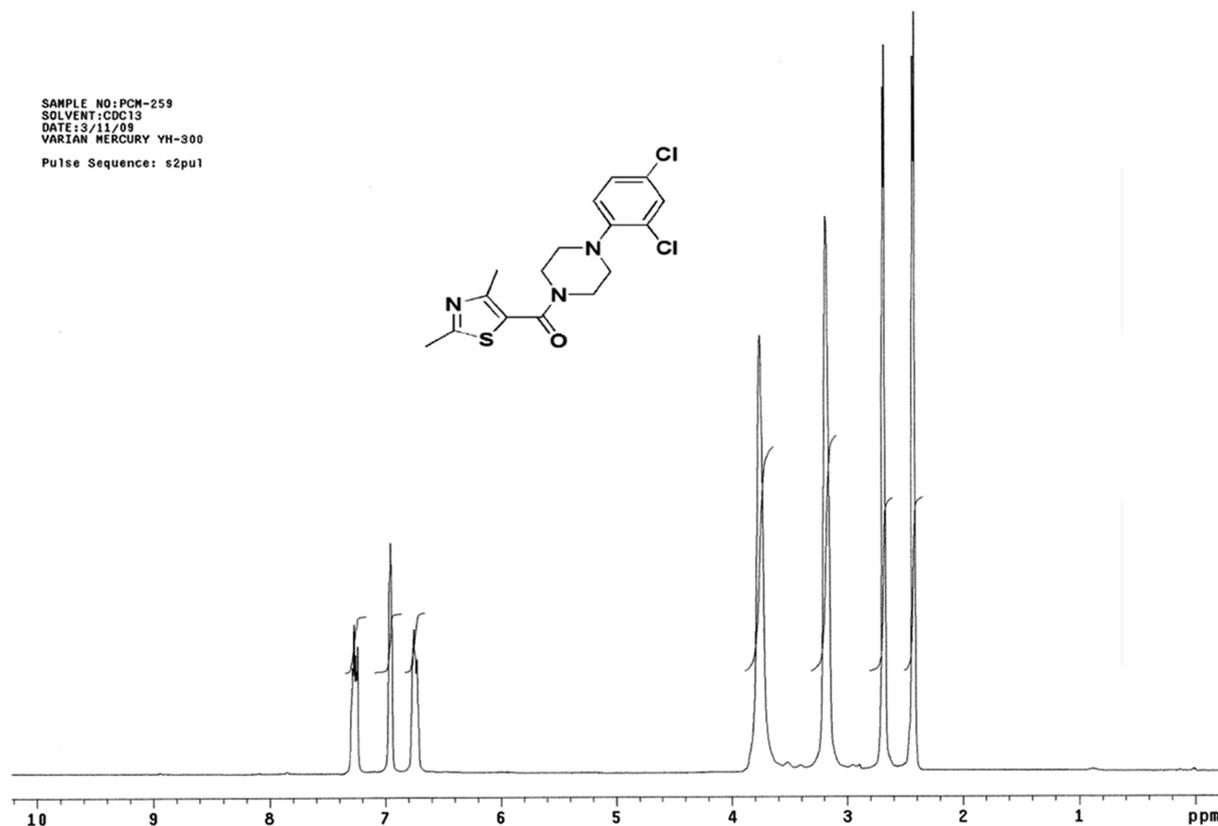


Figure S1. ¹H NMR (CDCl₃, 300 MHz) of (4-(2,4-dichlorophenyl)piperazin-1-yl)(2,4-dimethylthiazol-5-yl)methanone (**5a**).

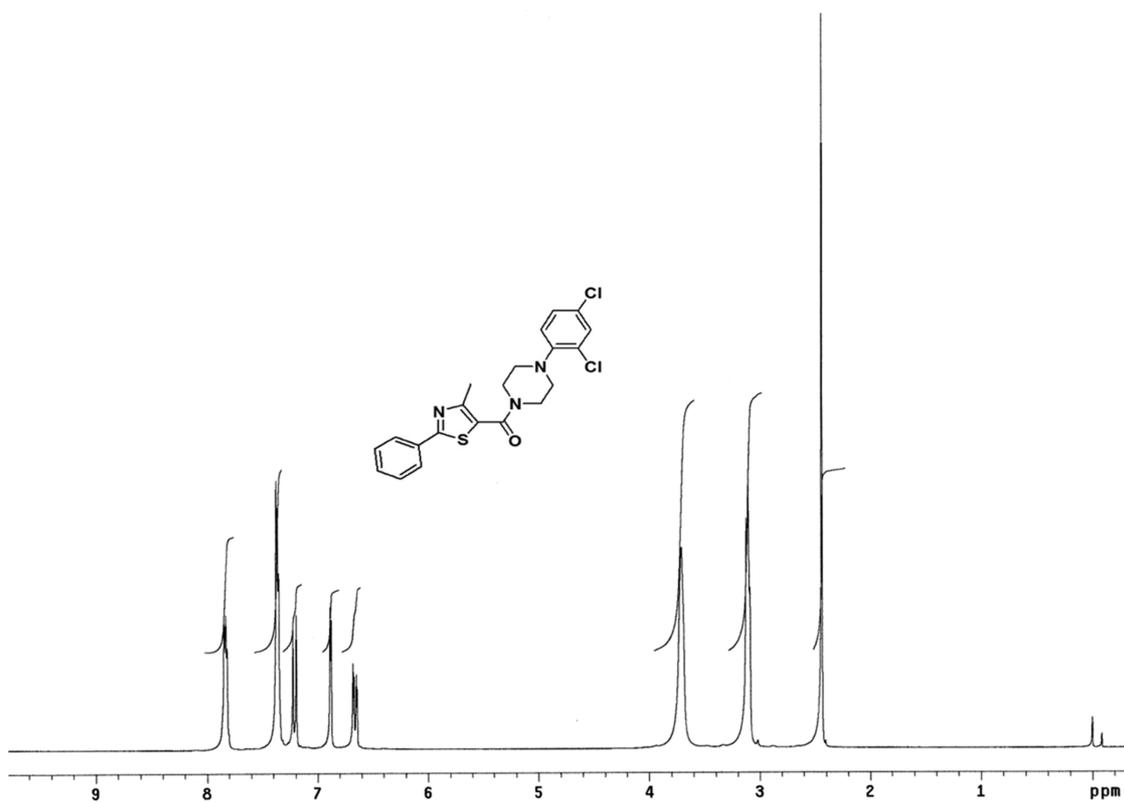


Figure S2. ¹H NMR (CDCl₃, 300 MHz) of (4-(2,4-dichlorophenyl)piperazin-1-yl)(4-methyl-2-phenylthiazol-5-yl)methanone (**5b**).

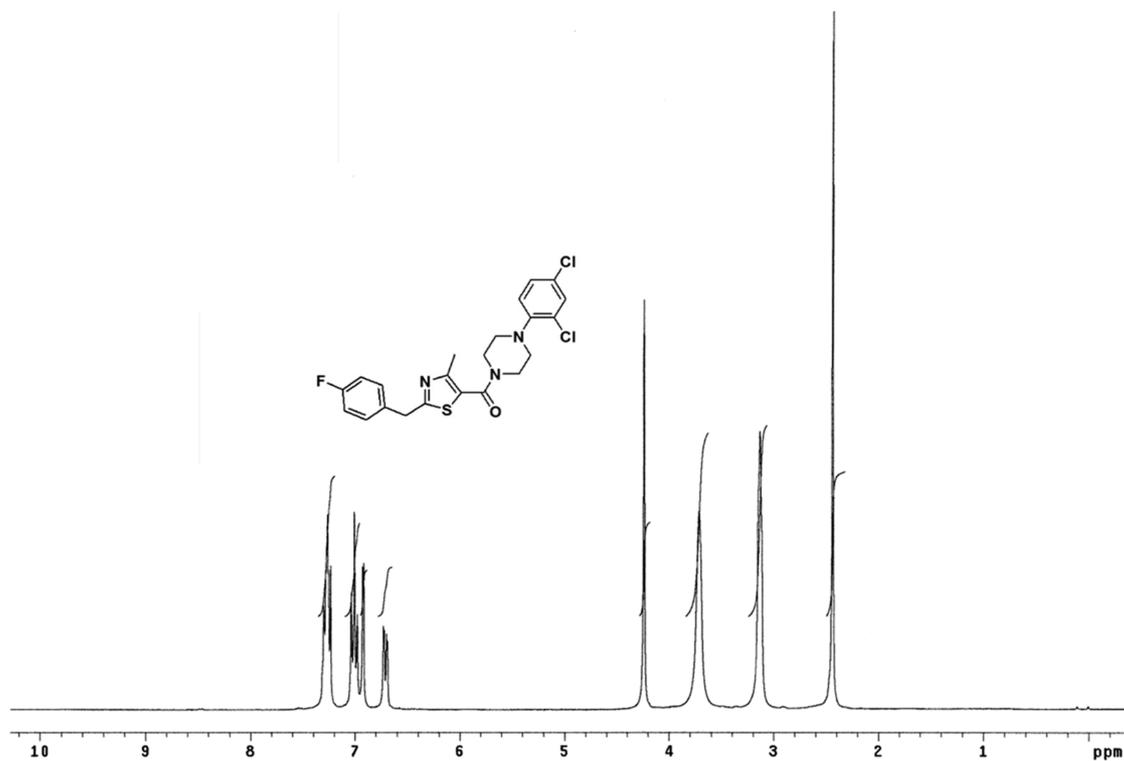


Figure S3. ¹H NMR (CDCl₃, 300 MHz) of (2-(4-fluorobenzyl)-4-methylthiazol-5-yl)(4-(2,4-dichlorophenyl)piperazin-1-yl)methanone (**5d**).

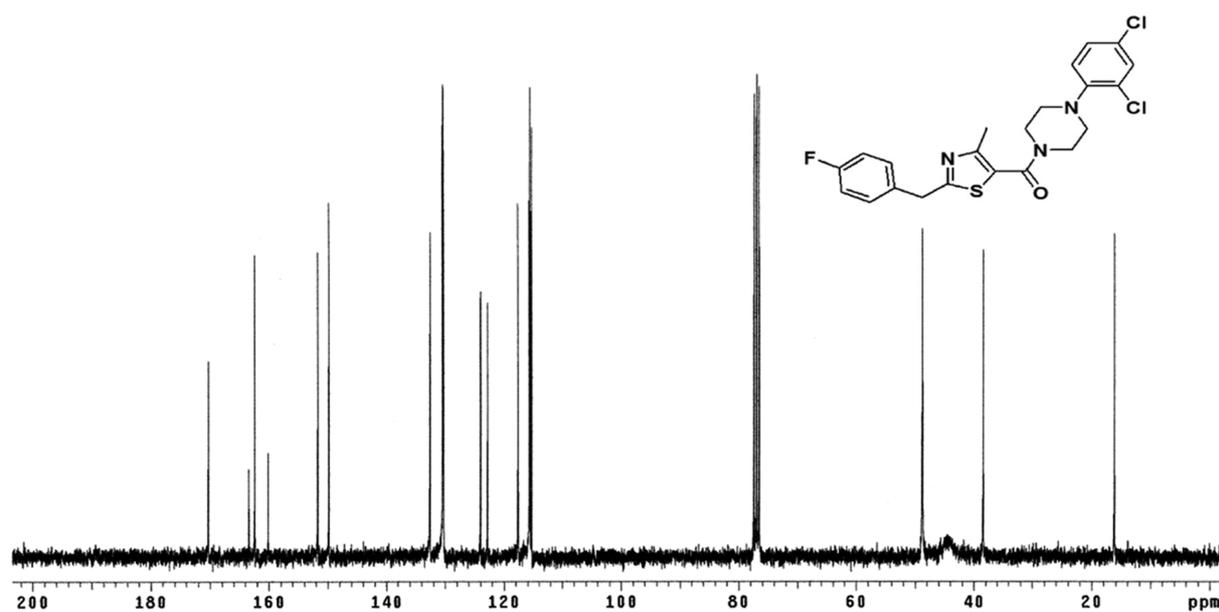


Figure S4. ¹³C NMR (CDCl₃, 75 MHz) of (2-(4-fluorobenzyl)-4-methylthiazol-5-yl)(4-(2,4-dichlorophenyl)piperazin-1-yl)methanone (5d).

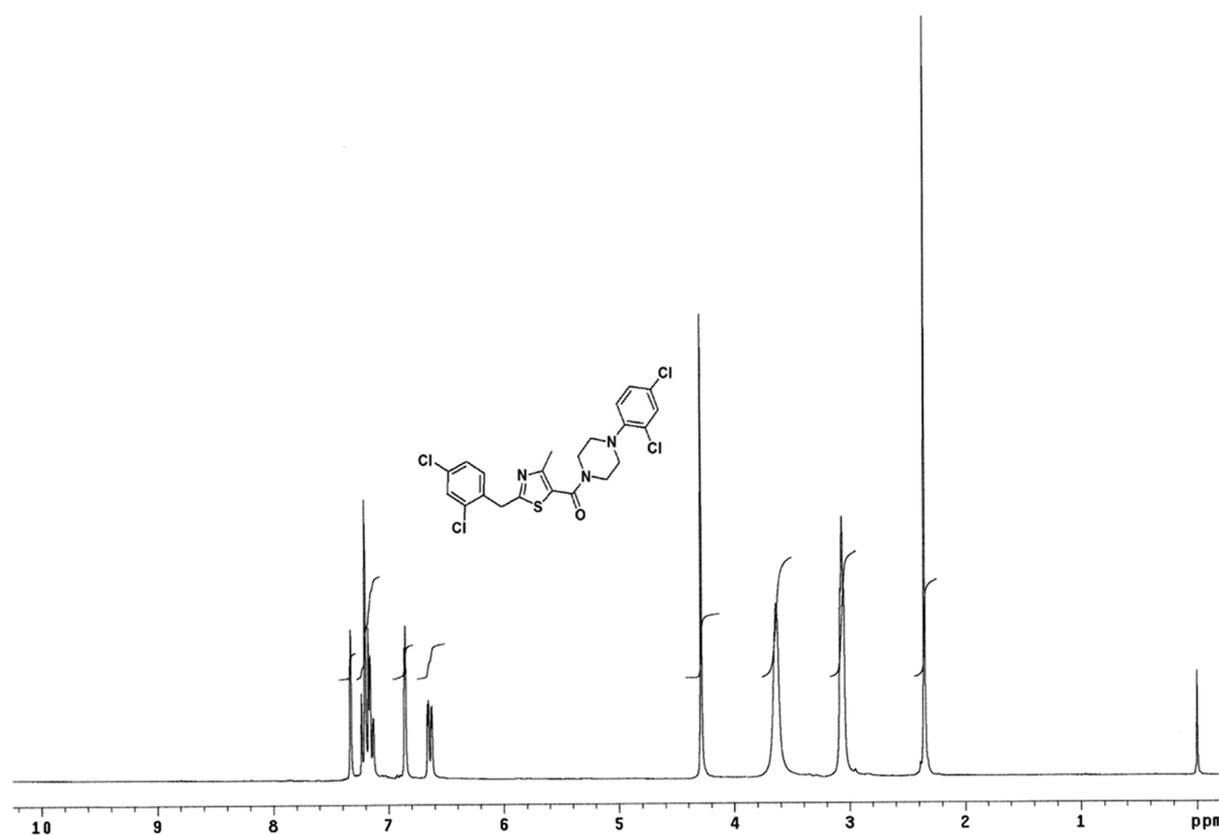


Figure S5. ¹H NMR (CDCl₃, 300 MHz) of (2-(2,4-dichlorobenzyl)-4-methylthiazol-5-yl)(4-(2,4-dichlorophenyl)piperazin-1-yl)methanone (5e).

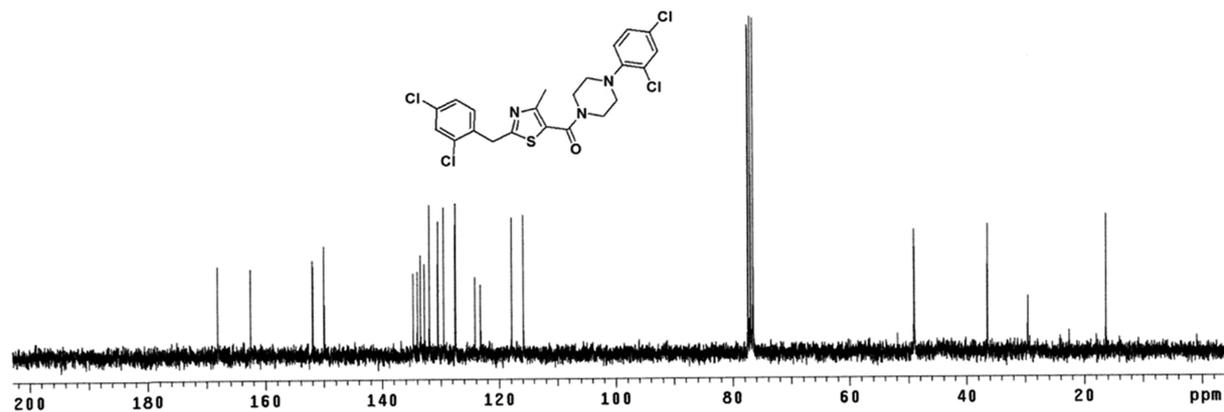


Figure S6. ¹³C NMR (CDCl₃, 75 MHz) of (2-(2,4-dichlorobenzyl)-4-methylthiazol-5-yl)(4-(2,4-dichlorophenyl)piperazin-1-yl)methanone (5e).

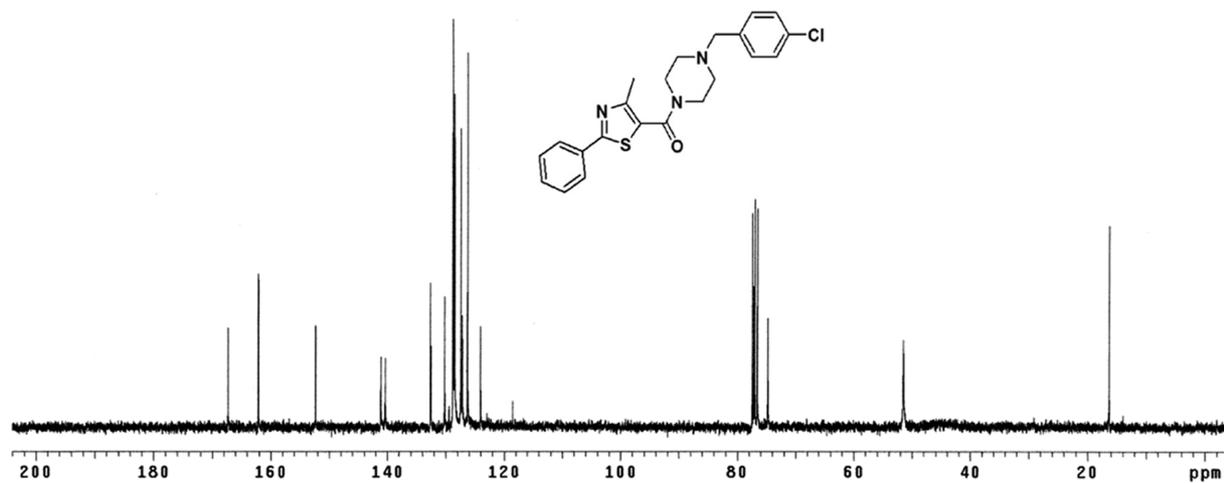


Figure S7. ¹³C NMR (CDCl₃, 75 MHz) of (4-(4-chlorobenzyl)piperazin-1-yl)(4-methyl-2-phenylthiazol-5-yl)methanone (5h).

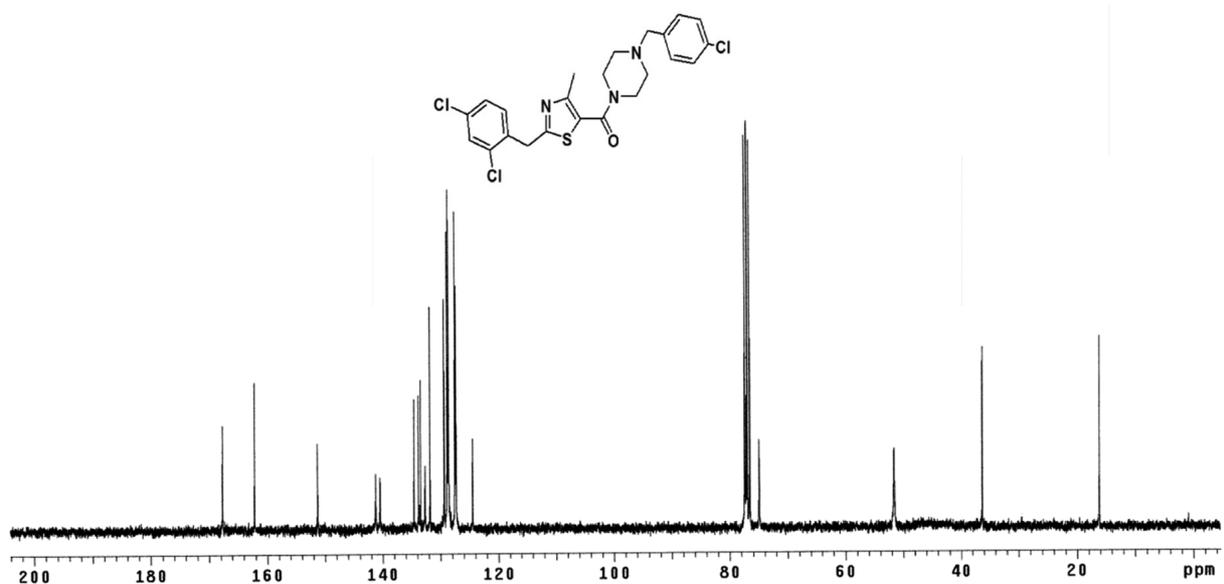


Figure S8. ¹³C NMR (CDCl₃, 75 MHz) of (2-(2,4-dichlorobenzyl)-4-methylthiazol-5-yl)(4-(4-chlorobenzyl)piperazin-1-yl)methanone (5k).