

Synthesis, spectral study and evaluation of antibacterial activity of some novel 4-(6-methoxynaphthalen-2-yl)-6-(substituted aryl)pyrimidine-2(1H)-thiones

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Abstract. The objective of this study was to synthesize some novel substituted 4-(2-methoxynaphthalen-6-yl) pyrimidine-2(1H)-thione compounds using sodium hydroxide catalyzed three component condensation and cyclization reaction of substituted 6-methoxy-2-acetonaphone, various substituted benzaldehydes and thiourea. These thione derivatives were characterized by their analytical, physical, and spectroscopic data. In addition, the *in vitro* antibacterial activities of these pyrimidine derivatives were evaluated using Bauer-Kirby disc diffusion method.

Keywords: pyrimidinethiones; acetonaphthones; thiourea; NMR spectra; antibacterial activity.

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