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O-methyl 4-((substituted)amino)-5-methylpyrrolo[2,1-f][1,2,4]triazine-6-carbothioate: Synthesis and Pharmacological Studies

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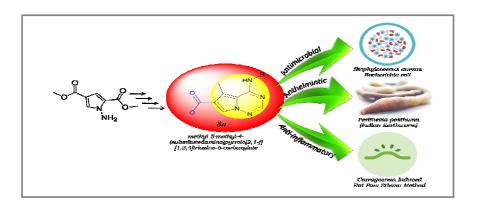
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ABSTRACT

A novel series of O-methyl 4-((substituted)amino)-5-methylpyrrolo[2,1-f][1,2,4]triazine-6-carbothioate derivatives (8a-j) were synthesized by the reaction of O-methyl 5-methyl-4-(methylthio) pyrrolo[2,1-f][1,2,4]triazine-6-carbothioate (6) with different substituted aromatic and aliphatic amines. All the compounds were characterized using Liquid Chromatographic Mass Spectra, Infra Red, Proton and Carbon Nuclear Magnetic Resonance spectral data's and synthesized derivatives were screened for antimicrobial, anthelmintic and anti-inflammatory activities. Out of all the test samples tested for biological potency, compounds 8a, 8b, 8e, 8f, 8g and 8j showed significant potency.

Graphical Abstract



Keywords: 1,2,4-Triazine, *Perithema posthuma*, *Carrageenan*, Intramolecular cyclization