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Synthesis of Substituted Thioureas and Their Sulfur Heterocyclic Systems of p-Amino Acid as Antimycobacterial Agents

By: [Makki, MSIT](#) (Makki, Mohammed Saleh I. T.)^[1]; [Abdel-Rahman, RM](#) (Abdel-Rahman, Reda M.)^[1]; [Faidallah, HM](#) (Faidallah, Hassan M.)^[1]; [Khan, KA](#) (Khan, Khalid Ali)^[1]

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Abstract

A series of new N,N'-substituted thioureas (2, 6, and 8) and their sulfur heterocycles as thiobarbituric acids (3, 4, and 7), 2-thioxothiazolidin-4-one (10), thiozolidin-4-one (11), 1,2,4-triazol-5thione (14), and 1,3,4-thiadiazole (15) of p-Amino salicylic acid (PAS) have been synthesized from treatment with dithiocarbazinate (1, 5 and 12) followed by heterocyclization with dimethyl malonate, chloroacetic acid, and/or trifluoroacetic anhydride. The structures of the newly synthesized compounds were substantiated with IR, H-1, and C-13 NMR spectral data elementary microanalysis. The in vitro antitubercular activity of synthesized compounds against M. tuberculosis strain H37Rv showed moderate-to-good activity.

Keywords

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Author Information

Reprint Address: Faidallah, HM (reprint author)

King Abdulaziz Univ, Dept Chem, Fac Sci, POB 80203, Jeddah 21589, Saudi Arabia.

Organization-Enhanced Name(s)

King Abdulaziz University

Addresses:

[1] King Abdulaziz Univ, Dept Chem, Fac Sci, Jeddah 21589, Saudi Arabia

Organization-Enhanced Name(s)

King Abdulaziz University

E-mail Addresses: hfaidallahm@hotmail.com

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