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Synthesis and antiinflammatory evaluation of some more new 1,2,4-triazolo[3,4-b] thiadiazoles as an antimicrobial agent: Part-I (2011) *International Journal of ChemTech Research*, 3 (1), pp. 423-434.

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Abstract

Some of the new 1,2,4-triazolothiadiazole derivatives (2-9) have been synthesized starting from the interaction between 4-amino-3-(pyrid-4yl)-5- mercapto-1,2,4-triazole(1) and α, α, β -bifunctional compounds, such as tri ethylphosphite, trifluoroacetamide, cyanamide, isothiocyante, carbon disulfide and /or fluorinated aromatic aldehydes in different conditions. The new semi-drugs 5-substituted amino-4-amino-3-(pyrid-4y)1,2,4-triazoles(10a,10b) were also obtained from treatment of compound1 with 4-fluoroanline and sulfa-drug as sulfathiazole. Structure of the products have been established on the basis of their elemental analysis and spectral (UV, IR, ¹HNMR, ¹³Cnmr and mass) data. The novel molecules synthesized were evaluated for their anti-inflammatory and antimicrobial behavior in comparison with Indomethacin (Anti-inflammatory), Nalidexic acid (bacteria) and Nystain (fungi) as antibiotics, Where the compounds 3,7b and 9exhibited higher activities.

Author Keywords

Fused triazolothiadiazoles; Pharmacological properties; Synthesis

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