

论文

N- [5-(3-吡啶基)-1,3,4-噻二唑-2-基] -*N'*-芳甲酰基脲的合成及抗菌活性

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摘要:

关键词: 芳甲酰基脲 1,3,4-噻二唑 合成 抗菌活性

Synthesis and antimicrobial activity of *n*- [5-(3-pyridyl)-1,3,4-thiadiazol-2-yl] -*N'*-aroyl urea

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Abstract:

To synthesize and evaluate antimicrobial activity of novel heterocyclic compounds, the corresponding title aroyl ureas have been synthesized by the reaction of 2-amino-5-(3-pyridyl)-1,3,4-thiadiazole with aroyl isocyanates. Their antimicrobial activities *in vitro* were tested by disk diffusion methods and broth microdilution according to M-27A protocol recommended by NCCLS. Twelve new compounds were obtained, and their structures were confirmed by MS, IR, ¹H NMR and elemental analysis. The biological screening tests showed that most of the compounds have some antifungal activities *in vitro*. Aroyl ureas incorporating pyridyl thiadiazole ring may be developed as novel antifungal candidate drugs and are worthwhile to be further studied.

Keywords: 1,3,4-thiadiazole synthesis antibacterial activity aroyl urea

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