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Synthesis, Characterization And Pharmacological Evaluation of Novel Substituted Amides Containing Pyrimidine Nucleus as Antibacterial Agents

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ABSTRACT

The paper presents the synthesis of some new amides containing pyrimidine as core moiety 6a-e by the reaction between acid 4 with different substituted amines in the presence of base. The key intermediate 4 was synthesized from compound 1 via Suzuki coupling and then hydrolysis reaction. The structures of compounds were confirmed by IR, ^{1}H NMR, ^{13}C NMR and CHN elemental analysis. The newly synthesized compounds were evaluated for their antibacterial activity. It was found that few amides exhibited significant antibacterial activity.

Keywords: Suzuki coupling, pyrimidine, dikis, cesium carbonate, 3-(3-dimethylaminopropyl) carbodi imide hydrochloride, hydroxybenzotriazole, antibacterial activity.