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Research Article

Novel Azidobenzohydrazide Schiff Bases: Unveiling Effective Synthesis Strategy and Antimicrobial Efficacy Evaluation

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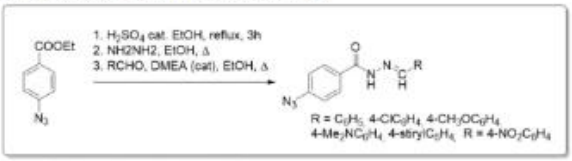
Graphical Abstract

A series of 4-azido-N'-(benzylidene)benzohydrazides have been synthesized from amino benzoic acid in excellent yields via a four steps procedure. The products have been fully characterized and their antimicrobial activity evaluated by disc diffusion procedure.



Abstract

Benzohydrazide analogues are interesting compounds in the field of pharmaceutical, medicinal chemistry, and coordination chemistry, since they are diverse in biological activities, and they are contributing in medicines and drugs. In the present paper, a series of 4-azido-N'-(benzylidene)benzohydrazides have been synthesized with excellent yields via a four steps procedure from amino benzoic acid as the starting substrate. The products have been fully characterized and their antimicrobial activity evaluated by disc diffusion procedure. Notably, such compounds exhibits activity against gram-positive and gram-negative bacteria and fungi.

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