



Synthesis, Characterization, Antibacterial and Antifungal Screening of Various 5-Bromo-7-Methoxy-Benzofuran Schiff Bases

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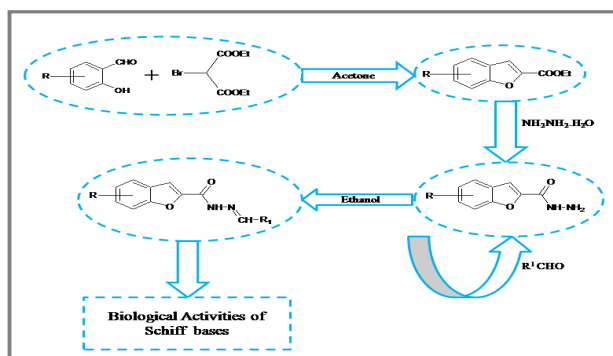
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ABSTRACT

Encouraged by the pharmaceutical properties of benzofuran compounds and the Schiff's bases, in continuation of our synthetic work on pharmacologically active benzofurans, we now report the synthesis of benzofuran linked Schiff's bases. The starting compound 5-bromo-7-methoxysalicylaldehyde was synthesized by bromination of *o*-vanillin. The key intermediates 5-bromo-7-methoxy benzofuran-2-ethyl carboxylate (**1**) was obtained by condensing with diethylbromomelonnate in the presence of dry acetone and anhydrous potassium carbonate. The ester (**1**) was converted into hydrazide (**2**) by treating with hydrazine hydrate, which was then converted into Schiff bases **3(a-f)** by condensing with various aldehydes. All the compounds synthesized during the present investigation were in agreement with the assigned structure which was supported by spectral and analytical data.

Graphical Abstract



Keywords: Benzofuran, Schiff bases, Antibacterial, Antifungal.