

Design, Characterization of Novel Chalcone Synthesized From Coumarin Derivatives Condensed With Various Aromatic Aldehyde

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ABSTRACT

In the present study, Resorcinol condensed with Ethyl acetoacetate in the presence of H_2SO_4 to yield corresponding coumarin which further reacts with acetic anhydride and then reacts with aluminium chloride to yield 4-methyl-7-hydroxy-8-acetocoumarin, which reacts with aromatic aldehyde in the presence of base to yield chalcone. Final moieties have been characterized by FT-IR, 1H NMR, and Mass Spectra.

Keywords : Design, Characterization & Chalcone

