



Synthesis and Characterization of 5'-benzylidene-1-(2-(1,3-dioxoisindine-2-yloxy)ethyl)-3'-(5-phenyl-1,3,4-thiadiazole-2yl)spiro[indoline-3,2'thiazolidine]-2,4'-dione and Its Related Derivatives

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ABSTRACT

Facile synthesis of 3 has been achieved by the cycloaddition reaction of mercapto acetic acid with Schiff base 2, which in turn was prepared by the condensation reaction of substituted thiadiazole 1 with isatin. Condensation of 3 with substituted araldehydes afforded corresponding chalcones 4a-d. Subsequent treatment of 4a-d with bromoethoxyphthalimide to obtain final compounds 5a-d. Structure confirmation was accomplished by spectral studies (IR, ¹H NMR) and elemental analysis of all the synthesized compounds.

Keywords: Bromoethoxyphthalimide; chalcone; isatin; Schiff base; thiadiazole.
