

SYNTHESIS AND CHARACTERIZATION OF SOME NOVEL 1,3-THIAZINE DERIVATIVES DERIVED FROM COUMARIN

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ABSTRACT

Coumarins (2H-1-benzopyran-2-ones) are important oxygen containing fused heterocycles used in drugs and dyes. They are the family of lactones containing benzopyrone skeletal framework that have Susceptibility for isolation from plant as well as total synthesis in the laboratory. 1,3-Thiazines are six membered heterocyclic rings with N-C-S linkage which have promising pharmacological activities which have attract the attention of scientists. The present study was designed to synthesis a new Thiazine derivatives from Chalcones which are derived from Coumarin. Compound(1) (7-hdroxy-4-methyl coumarin) was fused with actamide to gives 1-acetyl-7-hydroxy-4-methyl quinolin-2(1H)-one (2).The reaction of (2) with various benzeldehyde in presence of alcoholic NaOH leads to production a new series from Chalcones (3-6). Refluxing of Chalcones with thiourea in presence of alcoholic KOH gives a new derivatives from 1,3 Thiazine (7-10).These new derivatives were characterized using various physical techniques like: FT- IR ,¹H-NMR ,GC-Mass and C.H.N.S spectra.

KEYWORDS: Coumarin, 1,3 Thiazine, Chalcon, Methylqiunolin