

SYNTHESIS AND ANTIDIABETIC ACTIVITY OF SOME NEW 5-(4-OXO-4H-CHROMEN-3-YL-METHYLENE)-THIAZOLIDINE- 2,4-DIONES

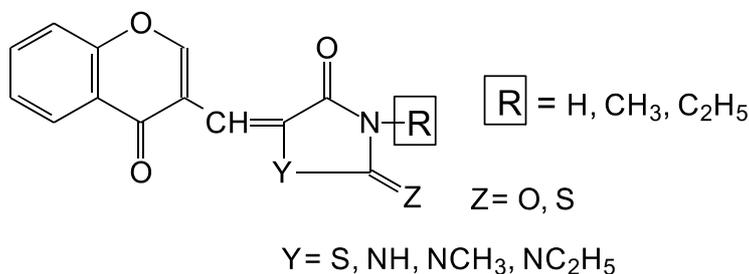
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Type 2 diabetes is one of the most common metabolic diseases still lacking fully effective therapy and characterized by abnormalities of insulin secretion and by insulin resistance of major target tissues [1, 2]. 2,4-Thiazolidinediones (2,4-TZDs) are a new class of antidiabetic agents that improve peripheral insulin resistance in type 2 diabetic patients [3, 4].

The chromone moiety forms the important component of pharmacophores of a number of biologically active molecules of synthetic as well as natural origin and many of them have useful medicinal applications [5]. In this study, we describe further modifications of the 2,4-TZD derivatives containing chromone ring (Formula). The structural evaluation of the compounds were based on the various spectral data. The synthesized compounds are under investigation for their insulinotropic activities in INS-1 cells.



Formula

References

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