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(54) Title of the invention : SYNTHESIS & BIOLOGICAL EVALUATION OF SOME 5-SUBSTITUTED PHENOTHIAZINE BASED THIAZOLIDINE-2,4-DIONE DERIVATIVES

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(57) Abstract :

The present invention relates to phenothiazine abbreviated PTZ is an organic compound that has the formula $S(C_6H_4)_2NH$ and is related to the heterocyclic compounds. It contains two benzenes rings linked in a tricyclic system through nitrogen and sulfur atoms. Phenothiazine derivatives having amino alkyl side chain connected to the nitrogen atom of heterocyclic unit. Research into phenothiazine and its derivatives has remained unabated due to the wide range of application of this class of compounds as drugs, pesticides, dyes, industrial antioxidants, thermal stabilizers etc. Phenothiazine the parent compound of the large number of medicinal compounds and thiazine dyes has been the subject of intensive study in industries. The main objective of this research work was to combine two moieties phenothiazine & thiazolidine-2,4-dione to prepare more potent antidiabetic derivatives. Phenothiazine & thiazolidine-2,4-dione entity are very interesting components in terms of their biological properties, such as antifungal, antibacterial, and anticonvulsant activities.

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