

Synthesis and Biological Evaluation of Some Phenothiazine Derivatives

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Abstract: *As we all know that in this modern era, humans are the most troubled due to health problems. Keeping in mind the health problems, the name phenothiazine comes to mind, which is known for many medicinal properties since 1930. The phenothiazine structure and its derivatives have been important in pharmacology and biomedicine since its discovery in the early stage of organic dye chemistry. Phenothiazine provides the most valuable template used to create a variety of derivatives that can be used targeting different biological processes. Phenothiazine was being used since the early 1930s, whether it was its antibiotic property or anti-helminthic property. Phenothiazine-based drugs began to be used as antihistaminic and by the end of the 1950s, it had become popular for its sedative and antipsychotic properties. This page seeks to present all available data regarding phenothiazine-based medications and summarizes research on phenothiazine's synthesis, physical and biological property and also structural conformation.*

Keywords: Phenothiazine, synthesis of phenothiazine derivative, physical property, structural conformation, Biological screening

