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### **Research Abstract**

In silico drug designing is an expression used to mean “performed on computer or via computer simulation”. It is defined as identification of the drug target molecule by employing bioinformatics tools. Thiazines are one of the major classes with widespread distribution and also have been the subject of great interest for their interesting pharmacological activities is an organic compound containing a ring of four carbon one nitrogen and one sulphur atom this heterocycle have been well exploited for the generation of many medicinal scaffolds. Some anticancer agents containing 9-anilino acridines such as Amsacrine and Nitracrine already developed currently they are also well known clinically substances with antibacterial ,antiviral, anti inflammatory and anti tuberculosis properties. Anilinoacridine and its derivatives, well known as DNA intercalates, have been widely studied from a variety of viewpoints, such as synthesis, physiochemical properties structural requirements and biological activities . Only a few studies exploring their anticancer potential have been reported . Moreover, in recent years, attention has been increasingly paid to the synthesis of bis-heterocyclic compounds, which exhibit various biological activities . In view of the promising biological profile of the 1,3- thiazines, a series of symmetrically bridged bis-thiazine derivatives were synthesized and their anticancer activities were evaluated against various cancer cells. In the current study a series of thiazine based anti cancer agents derivatives were synthesized and further evaluated for their invitro activities.