

Enzyme Inhibition Activity of Schiff Bases Against Mycobacterium Tuberculosis Using Molecular Docking

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Abstract : The main cause of infectious disease in the modern world is Mycobacterium Tuberculosis (MT). To combat tuberculosis, new and efficient drugs are an urgent need in the modern world. Schiff bases are potent for their biological pharmacophore activity. Thus we selected different Vanillin-based Schiff bases for their binding activity against target enzymes of Mycobacterium tuberculosis that is (DprE1 (decaprenyl phosphoryl- β -D-ribose 2'-epimerase), and DNA gyrase subunit-A), using molecular docking. We evaluate the inhibition potential, interaction, and binding mode of these compounds with the target enzymes.

Keywords : schiff bases, tuberculosis, DNA gyrase, DprE1, docking

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