



STUDIES ON THIAZOLE

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Introduction: Thiazoles are one of the most intensively investigated classes of aromatic five-membered heterocycles. It was first described by Hantzsch and Weber in 1887. This five membered ring system containing sulfur and nitrogen heteroatoms at positions-1 and -3, respectively is involved in many of the natural products.



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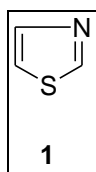
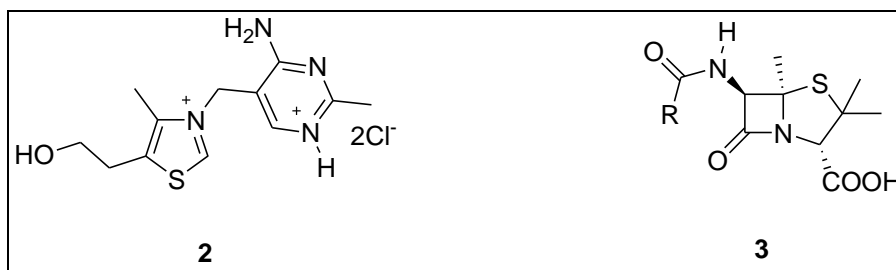


Figure 1 Structure of thiazole

For example, the thiazolium ring present in vitamin B1 (2) serves as an electron sink, and its coenzyme form is important for the decarboxylation of α -keto acids. Thiazole and its derivatives are very useful compounds in various fields of chemistry including medicine and agriculture. In addition, thiazoles are also synthetic intermediates and common substructures in numerous biologically active compounds such as various derivatives of penicillins (3) and antibacterial thiazoles. Reduced thiazoles serve in the study of polypeptides and proteins and occur as structural units in compounds of biological importance.



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