**BIOLOGICAL ACTIVITY:**

Mequitazine is a potent, nonsedative and long-acting histamine $H_1$ antagonist. **In Vitro:** Mequitazine is a potent $H_1$-receptors selective antihistaminic drug widely studied and used for allergic disorders such as hay fever and urticaria\[^1\]. Mequitazine demonstrates significant bactericidal effects against all the tested clinical isolates including *P. aeruginosa*. Its effect against the Gram-positive isolates is more pronounced\[^2\]. **In Vivo:** Mequitazine and clemizole antagonize the effect of histamine in guinea-pig ileum competitively. Mequitazine at $10^7$ produces a parallel shift of the dose-response curve to acetylcholine in the rat duodenum. Mequitazine at highest concentration shows anticholinergic activity\[^3\]. Mequitazine inhibits contractile responses to KCl, phenylephrine (PE), 5-hydroxytryptamine (5-HT), and Ca$^{2+}$ in rat aorta\[^4\].

**References:**


**SMILES:**

C12=CC=CC=C1N(CC3CN4CCC3CC4)C5=C(C=C=C5)S2

**Caution:** Product has not been fully validated for medical applications. For research use only.