**Bioactive Molecules, Building Blocks, Intermediates**
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**Data Sheet**

**Product Name:** Mequitazine  
**Cat. No.:** CS-6222  
**CAS No.:** 29216-28-2  
**Molecular Formula:** C$_{20}$H$_{22}$N$_2$S  
**Molecular Weight:** 322.47  
**Target:** Histamine Receptor  
**Pathway:** GPCR/G Protein; Immunology/Inflammation  
**Solubility:** DMSO : 16 mg/mL (49.62 mM; Need ultrasonic and warming)

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**BIOLOGICAL ACTIVITY:**

Mequitazine is a potent, non-sedative 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 *Ps. 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:**


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

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