Mequitazine

Cat. No.: HY-B2168
CAS No.: 29216-28-2
Molecular Formula: C₂₀H₂₂N₂S
Molecular Weight: 322.47
Target: Histamine Receptor
Pathway: GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
Storage: Powder -20°C 3 years
4°C 2 years
In solvent -80°C 6 months
-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro
DMSO : 16 mg/mL (49.62 mM; Need ultrasonic and warming)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>3.1011 mL</td>
<td>15.5053 mL</td>
<td>31.0106 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.6202 mL</td>
<td>3.1011 mL</td>
<td>6.2021 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.3101 mL</td>
<td>1.5505 mL</td>
<td>3.1011 mL</td>
<td></td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description
Mequitazine is a potent, nonsedative and long-acting histamine H₃ antagonist.

In Vitro
Mequitazine is a potent H₁-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].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo
Mequitazine and clemizole antagonize the effect of histamine in guinea-pig ileum competitively. Mequitazine at 10⁷ 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 Ca²⁺ in rat aorta[4].

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REFERENCES

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