Salsolidine

Cat. No.: HY-22385
CAS No.: 5784-74-7
Molecular Formula: C₁₂H₁₇NO₂
Molecular Weight: 207.27
Target: Monoamine Oxidase
Pathway: 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 10 mM in DMSO

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>4.8246 mL</td>
<td>24.1231 mL</td>
<td>48.2462 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.9649 mL</td>
<td>4.8246 mL</td>
<td>9.6493 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.4825 mL</td>
<td>2.4123 mL</td>
<td>4.8246 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description Salsolidine is a tetrahydroisoquinoline alkaloid, acts as a stereoselective competitive MAO A inhibitor.

IC₅₀ & Target MAO A[1]

In Vitro Salsolidine is a tetrahydroisoquinoline alkaloid, acts as a stereoselective competitive MAO A inhibitor. The R-salsolidine is more active against MAO A than S-salsolidine (Kᵢ, 6 μM and 186 μM)[1]. Salsolidine weakly inhibits the binding of δ-receptor, with a Kᵢ of >100 μM[2]. Salsolidine has the potential of inhibiting Acetylcholinesterase and butyrylcholinesterase[3].

REFERENCES
