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  
- Powder, 4°C: 2 years  
- In solvent, -80°C: 6 months  
- In solvent, -20°C: 1 month

### Solvent & Solubility

**In Vitro**  
10 mM in DMSO

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solvent Concentration</td>
<td></td>
<td></td>
<td></td>
</tr>
<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 butryrylcholinesterase[3].

### REFERENCES


Caution: Product has not been fully validated for medical applications. For research use only.
Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA