PRE-084 hydrochloride

**Cat. No.:** HY-18100A  
**CAS No.:** 75136-54-8  
**Molecular Formula:** C₁₉H₂₈ClNO₃  
**Molecular Weight:** 353.88  
**Target:** Sigma Receptor  
**Pathway:** GPCR/G Protein; 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: ≥ 34 mg/mL (96.08 mM)  
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.8258 mL</td>
<td>14.1291 mL</td>
<td>28.2582 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5652 mL</td>
<td>2.8258 mL</td>
<td>5.6516 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2826 mL</td>
<td>1.4129 mL</td>
<td>2.8258 mL</td>
<td></td>
</tr>
</tbody>
</table>

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

**In Vivo**

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
   Solubility: ≥ 2.08 mg/mL (5.88 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
   Solubility: ≥ 2.08 mg/mL (5.88 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.08 mg/mL (5.88 mM); Clear solution

### BIOLOGICAL ACTIVITY

**Description**  
PRE-084 hydrochloride is a high affinity, selective σ1 agonist, has an IC50 of 44 nM in the sigma receptor assay. IC50 value: 44 nM  
Target: sigma receptor in vitro: PRE-084 has an IC50 of more than 100,000 nM for PCP receptors and an IC50 higher than 10,000 nM in a variety of other receptor systems. [1]  
in vivo: PRE-084 improves motor neuron survival and motor performance in wobbler mice. PRE-084 enhances BDNF-mediated trophic support. [2]
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REFERENCES
