### Sumanirole maleate

Cat. No.: HY-70081A  
CAS No.: 179386-44-8  
Molecular Formula: $\text{C}_{15}\text{H}_{17}\text{N}_{3}\text{O}_{5}$  
Molecular Weight: 319.31  
Target: Dopamine Receptor  
Pathway: GPCR/G Protein; Neuronal Signaling  
Storage:  
- Powder: $-20^\circ\text{C}$ 3 years  
- Powder: $4^\circ\text{C}$ 2 years  
- In solvent: $-80^\circ\text{C}$ 6 months  
- In solvent: $-20^\circ\text{C}$ 1 month

### SOLVENT & SOLUBILITY

#### In Vitro

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>50 mg/mL</td>
<td>3.1318 mL</td>
<td>15.6588 mL</td>
<td>31.3175 mL</td>
</tr>
<tr>
<td>H$_2$O</td>
<td>10 mg/mL</td>
<td>3.1318 mL</td>
<td>6.2635 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: ≥ 2.5 mg/mL (7.83 mM); Clear solution

2. Add each solvent one by one: **10% DMSO** >> **90% (20% SBE-β-CD in saline)**  
   Solubility: ≥ 2.5 mg/mL (7.83 mM); Clear solution

3. Add each solvent one by one: **10% DMSO** >> **90% corn oil**  
   Solubility: ≥ 2.5 mg/mL (7.83 mM); Clear solution

### BIOLOGICAL ACTIVITY

**Description**  
Sumanirole maleate(PNU 95666E; U95666E) is a highly selective D2 receptor full agonist with an ED50 of about 46 nM.  
IC50 value: 46 nM (EC50)  
Target: D2 receptor  
Sumanirole was developed for the treatment of Parkinson’s disease and restless leg syndrome. While it has never been approved for medical use. Sumanirole is a highly valuable tool compound for basic research to identify neurobiological mechanisms that are based on a dopamine D2-linked (vs. D1, D3, D4, and D5-linked) mechanism of action.
REFERENCES


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