**Tasipimidine sulfate**

Cat. No.: HY-109075A  
CAS No.: 1465908-73-9  
Molecular Formula: C₁₃H₁₈N₂O₆S  
Molecular Weight: 330.36  
Target: Adrenergic Receptor  
Pathway: GPCR/G Protein; Neuronal Signaling  
Storage: 4°C, sealed storage, away from moisture  
* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

**SOLVENT & SOLUBILITY**

**In Vitro**  
DMSO: 125 mg/mL (378.38 mM; ultrasonic and warming and heat to 60°C)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>3.027 mL</td>
<td>15.135 mL</td>
<td>30.270 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.6054 mL</td>
<td>3.027 mL</td>
<td>6.0540 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.3027 mL</td>
<td>1.5135 mL</td>
<td>3.0270 mL</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 (6.30 mM); Clear solution

2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
   Solubility: ≥ 2.08 mg/mL (6.30 mM); Clear solution

3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.08 mg/mL (6.30 mM); Clear solution

**BIOLOGICAL ACTIVITY**

**Description**  
Tasipimidine sulfate is an orally active and selective α2A-adrenoceptor agonist with a pEC₅₀ of 7.57 against human α2A-adrenoceptor. Tasipimidine sulfate can be used for situational anxiety and fear research.[1]

**IC₅₀ & Target**  
<table>
<thead>
<tr>
<th>human α2A-adrenoceptor</th>
<th>rodent α2D-adrenoceptor</th>
<th>human α2C-adrenoceptor</th>
<th>human α2B-adrenoceptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.57 (pEC₅₀)</td>
<td>6.56 (pEC₅₀)</td>
<td>6.29 (pEC₅₀)</td>
<td>6.00 (pEC₅₀)</td>
</tr>
</tbody>
</table>

**REFERENCES**

[1]

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

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