**LAS101057**

**Cat. No.:** HY-14390  
**CAS No.:** 925676-48-8  
**Molecular Formula:** C₁₈H₁₄FN₅O  
**Molecular Weight:** 335.34  
**Target:** Adenosine Receptor  
**Pathway:** GPCR/G Protein  
**Storage:** 4°C, protect from light  
* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

**SOLVENT & SOLUBILITY**

**In Vitro**
- **DMSO:** ≥ 125 mg/mL (372.76 mM)  
- **H₂O:** < 0.1 mg/mL (insoluble)  
* "≥" 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></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>1 mM</td>
<td>2.982 mL</td>
<td>14.9102 mL</td>
<td>29.8205 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.5964 mL</td>
<td>2.9820 mL</td>
<td>5.9641 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.2982 mL</td>
<td>1.4910 mL</td>
<td>2.9820 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 (6.20 mM); Clear solution  
2. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.08 mg/mL (6.20 mM); Clear solution

**BIOLOGICAL ACTIVITY**

**Description**
LAS101057 is a potent, selective, and orally efficacious A₂B receptor antagonist.

**In Vivo**
At 3 mg/kg, LAS101057 is active in preventing Acetyl-β-methylcholine-induced AHR, and at 10 mg/kg it inhibits AHR to Acetyl-β-methylcholine to a level virtually equal to that seen with Hexadecadrol at 1 mg/kg[^1].

**REFERENCES**

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

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