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)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.9820 mL</td>
<td>14.9102 mL</td>
<td>29.8205 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5964 mL</td>
<td>2.9820 mL</td>
<td>5.9641 mL</td>
</tr>
<tr>
<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]

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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