AZD4635

Cat. No.: HY-101980
CAS No.: 1321514-06-0
Molecular Formula: C₁₅H₁₁ClFN₅
Molecular Weight: 315.73
Target: Adenosine Receptor
Pathway: GPCR/G Protein
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: ≥ 83.3 mg/mL (263.83 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>1 mM</td>
<td>3.1673 mL</td>
<td>15.8363 mL</td>
<td>31.6726 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.6335 mL</td>
<td>3.1673 mL</td>
<td>6.3345 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.3167 mL</td>
<td>1.5836 mL</td>
<td>3.1673 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 (6.59 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (6.59 mM); Clear solution

**BIOLOGICAL ACTIVITY**

Description: AZD4635 (HTL1071) is a potent, selective and orally active adenosine A2A receptor (A2AR) antagonist. AZD4635 binds to human A2AR with a Kᵢ of 1.7 nM and shows >30-fold selectivity over other adenosine receptors\(^1\).

IC₅₀ & Target:
Kᵢ: 1.7 nM (A2AR)\(^1\)

In Vitro:
In the presence of 0.1, 1 and 10 μM adenosine, the IC₅₀s of AZD4635 for inhibition of cAMP production are 0.79, 10.0 and 142.9 nM, respectively\(^1\).
REFERENCES