GR79236

Cat. No.: HY-18978
CAS No.: 124555-18-6
Molecular Formula: C₁₅H₂₁N₅O₅
Molecular Weight: 351.36
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 H₂O : ≥ 100 mg/mL (284.61 mM)
* “≥” means soluble, but saturation unknown.

Preparing Stock Solutions

<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>2.8461 mL</td>
<td>14.2304 mL</td>
<td>28.4608 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.5692 mL</td>
<td>2.8461 mL</td>
<td>5.6922 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.2846 mL</td>
<td>1.4230 mL</td>
<td>2.8461 mL</td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description
GR79236 is a highly potent and selective adenosine A1 receptor agonist (Ki = 3.1 nM) that has analgesic and anti-inflammatory actions in humans and animals. IC₅₀ value: 3.1 nM(Ki)
Target: adenosine A₁ receptor
in vitro: GR79236 is a highly potent and selective A₁-receptor agonist that is originally developed for the treatment of Type 2 diabetes mellitus, as a cardioprotective agent and also for peripheral arterial occlusive diseases.
in vivo: GR79236 has also been shown to have antinociceptive and anti-inflammatory properties in animal models. GR79236 inhibits the release of CGRP evoked by superior sagittal sinus (SSS) stimulation in the cat and inhibits trigeminal nucleus firing in the cat and rat. GR79236X has acute, short-term analgesic efficacy.

REFERENCES