CVN424

Cat. No.: HY-134661A
CAS No.: 2254706-21-1
Molecular Formula: C₃₄H₂₉F₂N₅O₃
Molecular Weight: 473.52
Target: Others
Pathway: Others
Storage: Powder -20°C 3 years
        4°C 2 years
        In solvent -80°C 6 months
        -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

<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>
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</tr>
<tr>
<td></td>
<td>1 mM</td>
<td>2.1118 mL</td>
<td>10.5592 mL</td>
<td>21.1184 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.4224 mL</td>
<td>2.1118 mL</td>
<td>4.2237 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.2112 mL</td>
<td>1.0559 mL</td>
<td>2.1118 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 (4.39 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (4.39 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.39 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
CVN424 is an orally active and selective GPR6 inverse agonist with a EC₅₀ of 9.4 nM and an EC₅₀ of 38 nM. CVN424 is brain-penetrant and has the potential for Parkinson disease research[1][2].

IC₅₀ & Target
GPR6[1]

In Vitro
CVN424 (Compound 6i) has 265 fold and 68 fold selectivities over GPR3 and GPR12[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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