Linrodostat

Cat. No.: HY-101560
CAS No.: 192383-60-6
Molecular Formula: C₂₄H₂₄ClFN₂O
Molecular Weight: 410.91
Target: Indoleamine 2,3-Dioxygenase (IDO)
Pathway: Metabolic Enzyme/Protease
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 : 50 mg/mL (121.68 mM; Need ultrasonic)
H₂O : < 0.1 mg/mL (insoluble)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass (mL) 1 mg</th>
<th>Mass (mL) 5 mg</th>
<th>Mass (mL) 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>2.4336 mL</td>
<td>12.1681 mL</td>
<td>24.3362 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.4867 mL</td>
<td>2.4336 mL</td>
<td>4.8672 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.2434 mL</td>
<td>1.2168 mL</td>
<td>2.4336 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 (5.06 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.08 mg/mL (5.06 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (5.06 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Linrodostat (BMS-986205) is a selective and irreversible indoleamine 2,3-dioxygenase 1 (IDO1) inhibitor with an IC₅₀ value of 1.1 nM in IDO1-HEK293 cells. Linrodostat is well tolerated with potent pharmacodynamic activity in advanced cancers[1][2].

IC₅₀ & Target
IDO1
Linrodostat (0.01-100 μM; 72 hours; SKOV-3 and Jurkat clone E6-1 cells) treatment reduces the number of viable cells compared with the non-treated control. Linrodostat also induces cell death at much lower concentrations and its IC₅₀ is 6.3 μM[1].

**Cell Viability Assay[1]**

<table>
<thead>
<tr>
<th>Cell Line</th>
<th>SKOV-3 and Jurkat clone E6-1 cells</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration</td>
<td>0.01-100 μM</td>
</tr>
<tr>
<td>Incubation Time</td>
<td>72 hours</td>
</tr>
<tr>
<td>Result</td>
<td>Reduced the number of viable cells compared with the non-treated control and induced cell death at much lower concentrations.</td>
</tr>
</tbody>
</table>

**REFERENCES**


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

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