Dapansutrile

Cat. No.: HY-17629
CAS No.: 54863-37-5
Molecular Formula: C₄H₇NO₂S
Molecular Weight: 133.17
Target: NOD-like Receptor (NLR)
Pathway: Immunology/Inflammation
Storage: Powder
-20°C 3 years
4°C 2 years
In solvent
-80°C 6 months
-20°C 1 month

SOLVENT & SOLUBILITY

<table>
<thead>
<tr>
<th>Solvent &amp; Solubility</th>
<th>Solvent</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO: ≥ 125 mg/mL (938.65 mM)</td>
<td>DMSO</td>
<td>1 mM</td>
<td>7.5092 mL</td>
<td>37.5460 mL</td>
<td>75.0920 mL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mM</td>
<td>1.5018 mL</td>
<td>7.5092 mL</td>
<td>15.0184 mL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mM</td>
<td>0.7509 mL</td>
<td>3.7546 mL</td>
<td>7.5092 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
Dapansutrile is a potent, selective and orally active inhibitor of NLRP3 inflammasome. Anti-inflammatory, analgesic activity[1].

IC₅₀ & Target
NLRP3 inflammasome[1]

[1] Product Data Sheet Inhibitors • Agonists • Screening Libraries

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (15.62 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (15.62 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (15.62 mM); Clear solution