KAN0438757

Cat. No.: HY-112808
CAS No.: 1451255-59-6
Molecular Formula: C₂₁H₁₈FNO₇S
Molecular Weight: 447.43
Target: Autophagy
Pathway: Autophagy
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 : 130 mg/mL (290.55 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>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>2.2350 mL</td>
<td>11.1749 mL</td>
<td>22.3499 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.4470 mL</td>
<td>2.2350 mL</td>
<td>4.4700 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.2235 mL</td>
<td>1.1175 mL</td>
<td>2.2350 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: 2.17 mg/mL (4.85 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.17 mg/mL (4.85 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.17 mg/mL (4.85 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
KAN0438757 is a potent and selective inhibitor of the metabolic kinase PFKFB3 with an IC₅₀ of 0.19 μM [1].

IC₅₀ & Target
IC₅₀: 0.19 μM (PFKFB3) [1]

CUSTOMER VALIDATION

Product Data Sheet
Inhibitors • Screening Libraries • Proteins
See more customer validations on www.MedChemExpress.com

REFERENCES


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

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