Micheliolide

Cat. No.: HY-N0847
CAS No.: 68370-47-8
Molecular Formula: C₁₅H₂₀O₃
Molecular Weight: 248.32
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
DMSO: 100 mg/mL (402.71 mM; Need ultrasonic)

Preparing Stock Solutions
<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>Mass (1 mg)</th>
<th>Mass (5 mg)</th>
<th>Mass (10 mg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>4.0271 mL</td>
<td>20.1353 mL</td>
<td>40.2706 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.8054 mL</td>
<td>4.0271 mL</td>
<td>8.0541 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.4027 mL</td>
<td>2.0135 mL</td>
<td>4.0271 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: ≥ 2.5 mg/mL (10.07 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (10.07 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (10.07 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Micheliolide could effectively attenuate the high glucose-stimulated activation of NF-κB, the degradation of IκBα, and the expression of MCP-1, TGF-β1 and FN in rat mesangial cells (MCs).

CUSTOMER VALIDATION

Product Data Sheet
Inhibitors • Agonists • Screening Libraries
www.MedChemExpress.com
REFERENCES


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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA