Licofelone

Cat. No.: HY-B1452
CAS No.: 156897-06-2
Molecular Formula: C₂₃H₂₂ClNO₂
Molecular Weight: 379.88
Target: COX; Lipoxigenase; Apoptosis
Pathway: Immunology/Inflammation; Metabolic Enzyme/Protease; Apoptosis
Storage: Powder -20°C 3 years
In solvent -80°C 6 months
-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro
DMSO : 25 mg/mL (65.81 mM; Need ultrasonic)

<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>
<td>1 mM</td>
<td>2.6324 mL</td>
<td>13.1621 mL</td>
<td>26.3241 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.5265 mL</td>
<td>2.6324 mL</td>
<td>5.2648 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.2632 mL</td>
<td>1.3162 mL</td>
<td>2.6324 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 >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.58 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Licofelone (ML-3000) is a dual COX/5-lipoxygenase (5-LOX) inhibitor (IC₅₀=0.21/0.18 μM, respectively) for the treatment of osteoarthritis. Licofelone exerts anti-inflammatory and anti-proliferative effects. Licofelone induces apoptosis, and decreases the production of proinflammatory leukotrienes and prostaglandins.[1][2][3].

IC₅₀ & Target
| In Vitro | COX 0.21 μM (IC₅₀) | 5-LOX 0.18 μM (IC₅₀) |

REFERENCES

www.MedChemExpress.com
