Picroside II

Cat. No.: HY-N0408  
CAS No.: 39012-20-9  
Molecular Formula: C₂₃H₂₈O₁₃  
Molecular Weight: 512.46  
Target: NF-κB; Reactive Oxygen Species; Apoptosis; Influenza Virus  
Pathway: NF-κB; Immunology/Inflammation; Metabolic Enzyme/Protease; Apoptosis; Anti-infection  
Storage: 4°C, protect from light  
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

SOLVENT & SOLUBILITY

In Vitro  
DMSO : 100 mg/mL (195.14 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Mass Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1 mM</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>0.1951 mL</td>
<td>1.9514 mL</td>
<td>19.5137 mL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.3903 mL</td>
<td>1.9514 mL</td>
<td>3.9027 mL</td>
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<tr>
<td></td>
<td></td>
<td>0.1951 mL</td>
<td>0.9757 mL</td>
<td>1.9514 mL</td>
</tr>
</tbody>
</table>

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
   Solubility: ≥ 0.83 mg/mL (1.62 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
   Solubility: ≥ 0.83 mg/mL (1.62 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 0.83 mg/mL (1.62 mM); Clear solution

BIOLOGICAL ACTIVITY

Picroside II, an iridoid compound extracted from Picrorhiza, exhibits anti-inflammatory and anti-apoptotic activities. Picroside II alleviates the inflammatory response in sepsis and enhances immune function by inhibiting the activation of NLRP3 inflammasome and NF-κB pathways. Picroside II is an antioxidant, exhibits a significant neuroprotective effect through reducing ROS production and protects the blood-brain barrier (BBB) after cerebral ischemia-reperfusion (CI/R) injury. Picroside II has antioxidant, anti-inflammatory, immune regulatory, anti-virus and other pharmacological activities.
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