Radicicol

Catalog Number: A4067
CAS No.: 12772-57-5
Formula: C18H17ClO6
M.Wt: 364.78

Synonyms:

Target: Metabolism
Pathway: HSP
Storage: Store at -20°C

Solvent & Solubility

Soluble in ethanol

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass</th>
<th>1mg</th>
<th>5mg</th>
<th>10mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td></td>
<td>2.7414 mL</td>
<td>13.7069 mL</td>
<td>27.4138 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td></td>
<td>0.5483 mL</td>
<td>2.7414 mL</td>
<td>5.4828 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td></td>
<td>0.2741 mL</td>
<td>1.3707 mL</td>
<td>2.7414 mL</td>
</tr>
</tbody>
</table>

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

Biological Activity

Short Summary: ATPase/kinase inhibitor

IC50 & Target:

Cell Viability Assay

Cell Line: 3T3-L1 preadipocytes
Preparation Method: The solubility of this compound in ethanol is 25 mM. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting Conditions: 2.5, 5, and 10 μM
Applications: In 3T3-L1 preadipocytes, radicicol dose-dependently reduced intracellular...
lipids, resulting in significantly lower lipid contents. Radicicol significantly decreased the protein expression of PPARγ and C/EBPα protein, which then affected adipocyte differentiation.

Animal experiment

<table>
<thead>
<tr>
<th>Animal models:</th>
<th>Male C57BL/6 mice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dosage form:</td>
<td>60 mg/kg; diluted in vehicle (PBS)</td>
</tr>
<tr>
<td>Applications:</td>
<td>In male C57BL/6 mice, radicicol (60 mg/kg) reduced cecal ligation and puncture (CLP)-induced leukocyte rolling by 15% and adhesion by 22%. In these septic mice, radicicol decreased CLP-induced MPO levels in the colon by 24%. Pretreatment with radicicol decreased CLP-evoked formation of MIP-2 and KC down to 68.4 ± 10.5 ng/g and 96.7 ± 15.2 ng/g, respectively, in the colon.</td>
</tr>
<tr>
<td>Other notes:</td>
<td>Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.</td>
</tr>
</tbody>
</table>

References


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NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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