Kaempferide

Cat. No.: HY-15449  
CAS No.: 491-54-3  
Molecular Formula: C₁₆H₁₂O₆  
Molecular Weight: 300.26  
Target: Estrogen Receptor/ERR; Autophagy  
Pathway: Others; 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: 20 mg/mL (66.61 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td></td>
<td>3.3304 mL</td>
<td>16.6522 mL</td>
<td>33.3045 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td></td>
<td>0.6661 mL</td>
<td>3.3304 mL</td>
<td>6.6609 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td></td>
<td>0.3330 mL</td>
<td>1.6652 mL</td>
<td>3.3304 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 mg/mL (6.66 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description  
Kaempferide is an O-methylated flavonol, a type of chemical compound. It can be found in Kaempferia galanga (aromatic ginger). The enzyme kaempferol 4’-O-methyltransferase uses S-adenosyl-L-methionine and kaempferol to produce S-adenosyl-L-homocysteine and kaempferide. P-glycoproteins.

REFERENCES


triglycoside from Dianthus caryophyllus. Phytother Res. 2010 Sep;24(9):1302-8.


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