Kaempferide

Cat. No.: HY-15449  
CAS No.: 491-54-3  
Molecular Formula: C₁₆H₁₂O₆  
Molecular Weight: 300.26  
Target: Estrogen Receptor/ERR; Autophagy; Bacterial; Influenza Virus  
Pathway: Others; Autophagy; Anti-infection  
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>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Mass Concentration Solvent</td>
<td>3.3304 mL</td>
<td>16.6522 mL</td>
<td>33.3045 mL</td>
</tr>
<tr>
<td>1 mM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.6661 mL</td>
<td>3.3304 mL</td>
<td>6.6609 mL</td>
</tr>
<tr>
<td>10 mM</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. Kaempferide has antiviral activities.

REFERENCES

