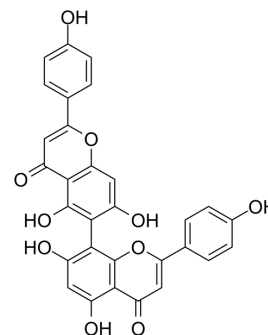


Agathisflavone

Cat. No.:	HY-118383
CAS No.:	28441-98-7
Molecular Formula:	C ₃₀ H ₁₈ O ₁₀
Molecular Weight:	538.46
Target:	Parasite
Pathway:	Anti-infection
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (185.71 mM; Need ultrasonic)																	
Preparing Stock Solutions	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>1.8571 mL</td> <td>9.2857 mL</td> <td>18.5715 mL</td> </tr> <tr> <td>5 mM</td> <td>0.3714 mL</td> <td>1.8571 mL</td> <td>3.7143 mL</td> </tr> <tr> <td>10 mM</td> <td>0.1857 mL</td> <td>0.9286 mL</td> <td>1.8571 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg	1 mM	1.8571 mL	9.2857 mL	18.5715 mL	5 mM	0.3714 mL	1.8571 mL	3.7143 mL	10 mM	0.1857 mL	0.9286 mL	1.8571 mL
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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: ≥ 2.5 mg/mL (4.64 mM); Clear solution																	

BIOLOGICAL ACTIVITY

Description	Agathisflavone is a flavonoid with antioxidant, anti-inflammatory, antiviral, antiparasitic, cytotoxic, neuroprotective, and hepatoprotective activities. Agathisflavone can improve tissue repair in a spinal cord injury model in rats ^{[1][2][3]} .
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REFERENCES

- [1]. Islam MT, et, al. Agathisflavone: Botanical sources, therapeutic promises, and molecular docking study. IUBMB Life. 2019 Sep;71(9):1192-1200.
- [2]. Freitas CS, et, al. Agathisflavone, a Biflavonoid from Anacardium occidentale L., Inhibits Influenza Virus Neuraminidase. Curr Top Med Chem. 2020;20(2):111-120.
- [3]. Nascimento RP, et, al. Agathisflavone as a Single Therapy or in Association With Mesenchymal Stem Cells Improves Tissue Repair in a Spinal Cord Injury Model in Rats. Front Pharmacol. 2022 Apr 5;13:858190.

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

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