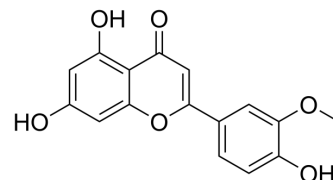


## Chrysoeriol

Cat. No.:	HY-121471
CAS No.:	491-71-4
Molecular Formula:	C <sub>16</sub> H <sub>12</sub> O <sub>6</sub>
Molecular Weight:	300.26
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
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 (333.04 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	3.3304 mL	16.6522 mL	33.3045 mL
				5 mM	0.6661 mL	3.3304 mL	6.6609 mL
				10 mM	0.3330 mL	1.6652 mL	3.3304 mL
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 (8.33 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (8.33 mM); Suspended solution; Need ultrasonic						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.33 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	Chrysoeriol is a kind of natural yellow ash, which can be used for heating plants <i>Coronopus didymus</i> . Chrysoeriol suppresses the JAK2/STAT3, IκB/p65, and NF-κB pathways, and has strong anti-inflammatory activity.
In Vitro	Chrysoeriol (5 μM, 10 μM or 20 μM; 24 h) exert a neuroprotective effect in the MPP <sup>+</sup> -triggered cytotoxicity and apoptosis in SH-SY5Y cells <sup>[2]</sup> . Chrysoeriol (20 μM; 24 h) inhibits the production of NO and PGE2 in LPS-stimulated RAW 264.7 cells <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Chrysoeriol (1 mg/ear; external application) improves ear edema induced by 12-O-tetradecanoylphorbol-13-acetate (TPA) in

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mice, and inhibits the JAK2/STAT3 and I $\kappa$ B/p65 NF- $\kappa$ B pathways to improve inflammation<sup>[3]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

- FOOD BIOPROD PROCESS. 2023 Feb 11.

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## REFERENCES

[1]. Beena Mishra, et al. Effect of O-glycosilation on the Antioxidant Activity and Free Radical Reactions of a Plant Flavonoid, Chrysoeriol. Bioorg Med Chem. 2003 Jul 3;11(13):2677-85.

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

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