

## Chrysoeriol

## Chemical Properties

CAS No. : 491-71-4

Formula: C<sub>16</sub>H<sub>12</sub>O<sub>6</sub>

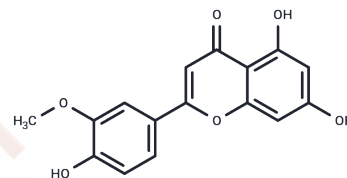
Molecular Weight: 300.26

Storage:

Keep away from direct sunlight, Keep away from moisture

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Chrysoeriol has antioxidant, antiinflammatory, antitumor, antimicrobial, antiviral, and free radical scavenging activities, it also shows selective bronchodilator effect.
Targets(IC50)	ERK,Akt,Endogenous Metabolite,p38 MAPK
In vitro	Chrysoeriol significantly inhibited PDGF (20 ng/mL)-induced migration and [(3)H]-thymidine incorporation into DNA at concentrations of 5 and 10 microM without any cytotoxicity. Chrysoeriol also blocked PDGF-stimulated dissociation of actin filament and inhibited PDGF beta-receptor (Rbeta) phosphorylation in a concentration-dependent manner. As a result, the downstream signal transduction pathways of PDGF-Rbeta, including ERK1/2, p38, and Akt phosphorylation, were also inhibited by Chrysoeriol in the same pattern[1]

## Solubility Information

Solubility	DMSO: 100 mg/mL (333.04 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (13.32 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.3304 mL	16.6522 mL	33.3045 mL
5 mM	0.6661 mL	3.3304 mL	6.6609 mL
10 mM	0.333 mL	1.6652 mL	3.3304 mL
50 mM	0.0666 mL	0.333 mL	0.6661 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

An inhibitory effect of chrysoeriol on platelet-derived growth factor (PDGF)-induced proliferation and PDGF receptor signaling in human aortic smooth muscle cells. *J Pharmacol Sci.* 2009 May;110(1):105-10.

Wang C R, Ji H W, He S Y, et al. Chrysoeriol Improves In Vitro Porcine Embryo Development by Reducing Oxidative Stress and Autophagy. *Veterinary Sciences.* 2023, 10(2): 143.

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