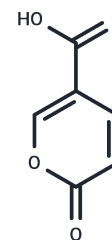


## Coumalic acid

## Chemical Properties

CAS No. :	500-05-0
Formula:	C <sub>6</sub> H <sub>4</sub> O <sub>4</sub>
Molecular Weight:	140.09
Storage:	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	Coumalic acid (Cumalic Acid) can be prepared from malic acid. It can be used in the industrial production of spices, flavorings, and cosmetics. It serves as a polymer component as well as an active molecular scaffold with anti-bronchial and malarial activity.
Targets(IC50)	Others,Endogenous Metabolite,Parasite,HCAR

## Solubility Information

Solubility	DMSO: 25 mg/mL (178.46 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: 2 mg/mL (14.28 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

	1mg	5mg	10mg
1 mM	7.1383 mL	35.6913 mL	71.3827 mL
5 mM	1.4277 mL	7.1383 mL	14.2765 mL
10 mM	0.7138 mL	3.5691 mL	7.1383 mL
50 mM	0.1428 mL	0.7138 mL	1.4277 mL

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

Re G , Badino P , Novelli A , et al. Specific binding of dl-cloprostenol and d-Gloprostenol to PGF(2 $\alpha$ ) receptors in bovine corpus luteum and myometrial cell membranes[J]. Journal of Veterinary Pharmacology & Therapeutics, 1995, 17(6):455-458.

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