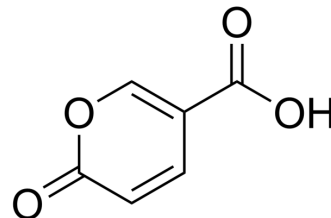


Coumalic acid

Cat. No.:	HY-32004		
CAS No.:	500-05-0		
Molecular Formula:	C ₆ H ₄ O ₄		
Molecular Weight:	140.09		
Target:	Biochemical Assay Reagents		
Pathway:	Others		
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 : 250 mg/mL (1784.57 mM; Need ultrasonic)
 H₂O : 2 mg/mL (14.28 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.08 mg/mL (14.85 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.08 mg/mL (14.85 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Coumalic acid is a valuable platform compound which can be prepared from malic acid. Coumalic acid can be used in the flavours, fragrances and cosmetics industries, as polymer components, and as pharmaceutical scaffolds displaying anti-bronchial and -malarial activity^[1].

REFERENCES

- [1]. Smith LK, et, al. Flow synthesis of coumalic acid and its derivatization. Department of Chemistry. 2018, 3: 722-732.

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

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