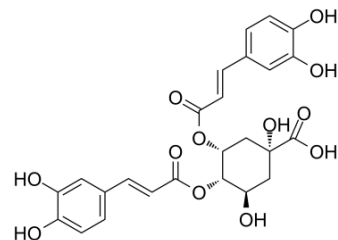


4,5-Dicaffeoylquinic acid

Cat. No.:	HY-N0058		
CAS No.:	57378-72-0		
Molecular Formula:	C ₂₅ H ₂₄ O ₁₂		
Molecular Weight:	516.45		
Target:	HBV; Endogenous Metabolite		
Pathway:	Anti-infection; Metabolic Enzyme/Protease		
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 : 50 mg/mL (96.81 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.9363 mL	9.6815 mL	19.3630 mL
	5 mM		0.3873 mL	1.9363 mL	3.8726 mL
	10 mM		0.1936 mL	0.9681 mL	1.9363 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: ≥ 2.5 mg/mL (4.84 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (4.84 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (4.84 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

4,5-Dicaffeoylquinic acid (Isochlorogenic acid C) possesses potent hepatoprotective and anti-HBV effects. IC₅₀ value: Target: Anti-hepatitis natural produce. In vitro: To study anti-hepatitis effect of isochlorogenic acid C, anti-apoptotic and anti-injury properties of test compound were evaluated. The results showed that test compound at concentrations of 10 to 100 μg/ml significantly reduced the caspase-3 and transformed growth factor β1 (TGFβ1) levels of the D-GalN-challenged hepatocytes. Also, test compound improved markedly cell viability of the D-GalN-injured hepatocytes and produced a maximum protection rate of 47.28% at a concentration of 100 μg/ml. Furthermore, test compound significantly inhibited productions of HBsAg and HBeAg. Its maximum inhibitory rates on the HBsAg and HBeAg expressions were 86.93 and 59.79%,

respectively. In addition, test compound significantly induced the HO-1 expression of HepG2.2.15 cells [1]. In vivo:

IC₅₀ & Target

Human Endogenous Metabolite

CUSTOMER VALIDATION

- J Agric Food Chem. 2019 Nov 6;67(44):12303-12312.
- Biologia. (2019) 74:1569-1577.

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REFERENCES

[1]. Shaoqing Hu, et al. Evaluation of anti-apoptotic, anti-injury and antihepatitis B virus effects of isochlorogenic acid C in vitro. Journal of Medicinal Plants Research Vol. 6(16), pp. 3199-3206 30 April, 2012

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

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