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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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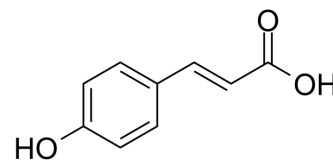
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p-Hydroxycinnamic acid

Cat. No.:	HY-N2391
CAS No.:	7400-08-0
Molecular Formula:	C ₉ H ₈ O ₃
Molecular Weight:	164.16
Target:	Endogenous Metabolite; Prostaglandin Receptor
Pathway:	Metabolic Enzyme/Protease; GPCR/G Protein
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (609.16 mM)
 Ethanol : 33.33 mg/mL (203.03 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		6.0916 mL	30.4581 mL	60.9162 mL
	5 mM		1.2183 mL	6.0916 mL	12.1832 mL
	10 mM		0.6092 mL	3.0458 mL	6.0916 mL

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

In Vivo

1. Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (15.23 mM); Clear solution
2. Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (15.23 mM); Clear solution
3. Add each solvent one by one: 10% EtOH >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (15.23 mM); Clear solution
4. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (12.67 mM); Clear solution
5. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (12.67 mM); Clear solution
6. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (12.67 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	p-Hydroxycinnamic acid, a common dietary phenol, could inhibit platelet activity, with IC ₅₀ s of 371 µM, 126 µM for thromboxane B ₂ production and lipopolysaccharide-induced prostaglandin E ₂ generation, respectively.	
IC₅₀ & Target	TXB ₂ 371 µM (IC ₅₀)	Human Endogenous Metabolite
In Vitro	p-Hydroxycinnamic acid (p-Coumaric acid), is a ubiquitous plant metabolite with antioxidant and anti-inflammatory properties. p-Hydroxycinnamic acid (500 µM and 1 mM) reduces ADP-induced platelet aggregation (55•2 (SE 4•01) % and 35•6 (SE 2•35) % relative to basal level, respectively). p-Hydroxycinnamic acid is able to modify platelet function, a shear-inducing device that simulates primary haemostasis. p-Hydroxycinnamic acid interferes also with arachidonic acid cascade, reducing thromboxane B₂ production and lipopolysaccharide-induced prostaglandin E₂ generation (IC₅₀ 371 and 126 µM, respectively)^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Luceri C, et al. p-Coumaric acid, a common dietary phenol, inhibits platelet activity in vitro and in vivo. Br J Nutr. 2007 Mar;97(3):458-63.

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

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