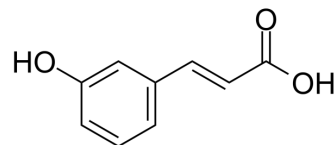


m-Coumaric acid

Cat. No.:	HY-113357
CAS No.:	588-30-7
Molecular Formula:	C ₉ H ₈ O ₃
Molecular Weight:	164.16
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (1522.90 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>6.0916 mL</td> <td>30.4581 mL</td> <td>60.9162 mL</td> </tr> <tr> <td>5 mM</td> <td>1.2183 mL</td> <td>6.0916 mL</td> <td>12.1832 mL</td> </tr> <tr> <td>10 mM</td> <td>0.6092 mL</td> <td>3.0458 mL</td> <td>6.0916 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			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
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	Please refer to the solubility information to select the appropriate solvent.																					
In Vivo	<ol style="list-style-type: none"> 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 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 Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (12.67 mM); Clear solution 																					

BIOLOGICAL ACTIVITY

Description	m-Coumaric acid is a polyphenol metabolite from caffeic acid, formed by the gut microflora and the amount in human biofluids is diet-dependant.
IC₅₀ & Target	Human Endogenous Metabolite

REFERENCES

[1]. Ito H, et al. Chlorogenic acid and its metabolite m-coumaric acid evoke neurite outgrowth in hippocampal neuronal cells. Biosci Biotechnol Biochem. 2008 Mar;72(3):885-8.

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

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