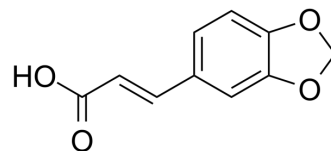


3,4-Methylenedioxycinnamic acid

Cat. No.:	HY-W009993
CAS No.:	2373-80-0
Molecular Formula:	C ₁₀ H ₈ O ₄
Molecular Weight:	192.17
Target:	Others
Pathway:	Others
Storage:	<div> <div>Powder</div> <div> -20°C 3 years 4°C 2 years </div> </div> <div> <div>In solvent</div> <div> -80°C 6 months -20°C 1 month </div> </div>



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (520.37 mM)

* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		5.2037 mL	26.0186 mL	52.0373 mL
	5 mM		1.0407 mL	5.2037 mL	10.4075 mL
	10 mM		0.5204 mL	2.6019 mL	5.2037 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline

Solubility: ≥ 1 mg/mL (5.20 mM); Clear solution

2. Add each solvent one by one: 10% DMSO >> 90% corn oil

Solubility: ≥ 1 mg/mL (5.20 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

3,4-Methylenedioxycinnamic acid is an inhibitor of the phenylpropanoid enzyme 4-hydroxycinnamoyl-CoA ligase. 3,4-Methylenedioxycinnamic acid increases the formation of soluble phenolics in particular of vanillic acid^[1].

REFERENCES

[1]. Funk C, Brodelius PE. Phenylpropanoid Metabolism in Suspension Cultures of Vanilla planifolia Andr. : II. Effects of Precursor Feeding and Metabolic Inhibitors. Plant Physiol. 1990 Sep;94(1):95-101.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA