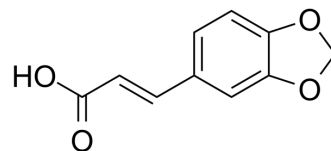


3,4-Methylenedioxcinnamic acid

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:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (520.37 mM)
 * "≥" means soluble, but saturation unknown.

Concentration	Mass		
	1 mg	5 mg	10 mg
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

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 1 mg/mL (5.20 mM); Clear solution
- 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-Methylenedioxcinnamic acid is an inhibitor of the phenylpropanoid enzyme 4-hydroxycinnamoyl-CoA ligase. 3,4-Methylenedioxcinnamic 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.

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