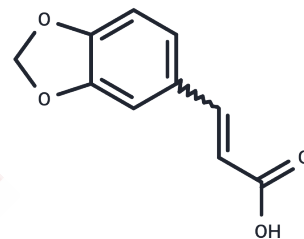


3,4-(Methylenedioxy)cinnamic acid

Chemical Properties

CAS No. :	2373-80-0
Formula:	C ₁₀ H ₈ O ₄
Molecular Weight:	192.17
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	3,4-(Methylenedioxy)cinnamic acid (3-(Benzo[d][1,3]dioxol-5-yl)acrylic acid) is a plant-derived compound first extracted from roots of <i>Asparagus officinalis</i> and further characterized as an allelochemical.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 65 mg/mL (338.24 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (5.2 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.1041 mL	0.5204 mL	1.0407 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Steenackers W J , Cesarino I , P Klíma, et al. The Allelochemical MDCA Inhibits Lignification and Affects Auxin Homeostasis[J]. Plant Physiology, 2016:pp.01972.2015.

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