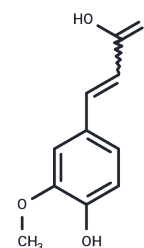


Ferulic Acid

Chemical Properties

CAS No. :	1135-24-6
Formula:	C ₁₀ H ₁₀ O ₄
Molecular Weight:	194.18
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	Ferulic Acid (Coniferic acid) is a highly abundant phenolic phytochemical and a type of organic compound found in the Ferula assafoetida L. or Ligusticum chuanxiong. It can be absorbed by the small intestine and excreted through the urine.
Targets(IC50)	FGFR, Endogenous Metabolite

Solubility Information

Solubility	DMSO: 255 mg/mL (1313.21 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 37 mg/mL (190.54 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: 2 mg/mL (10.3 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	5.1499 mL	25.7493 mL	51.4986 mL
5 mM	1.030 mL	5.1499 mL	10.2997 mL
10 mM	0.515 mL	2.5749 mL	5.1499 mL
50 mM	0.103 mL	0.515 mL	1.030 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

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Shi Y, Chen X, Qiang S, et al. Anti-Oxidation and Anti-Inflammatory Potency Evaluation of Ferulic Acid Derivatives Obtained through Virtual Screening. *International Journal of Molecular Sciences.* 2021, 22(21): 11305.

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