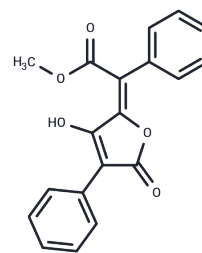


Vulpinic Acid

Chemical Properties

CAS No. :	521-52-8
Formula:	C ₁₉ H ₁₄ O ₅
Molecular Weight:	322.31
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	Vulpinic Acid (Pulvinic acid methyl ester) is a lichen metabolite with anti-inflammatory, antibacteria, properties, plant growth inhibitor.
Targets(IC50)	Others, Reactive Oxygen Species, Endogenous Metabolite, Antibacterial, ROS

Solubility Information

Solubility	DMSO: 60 mg/mL (186.16 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 (3.1 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	3.1026 mL	15.513 mL	31.026 mL
5 mM	0.6205 mL	3.1026 mL	6.2052 mL
10 mM	0.3103 mL	1.5513 mL	3.1026 mL
50 mM	0.0621 mL	0.3103 mL	0.6205 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

Koparal AT., et al. Anti-angiogenic and antiproliferative properties of the lichen substances (-)-usnic acid and vulpinic acid. Z Naturforsch C. 2015;70(5-6):159-64.

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