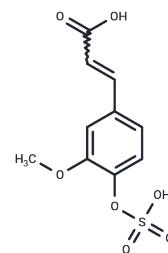


Ferulic acid 4-O-sulfate

Chemical Properties

CAS No. :	86321-29-1
Formula:	C ₁₀ H ₁₀ O ₇ S
Molecular Weight:	274.25
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Ferulic acid 4-O-sulfate (Ferulic acid 4-sulfate) is a metabolite of Ferulic acid. Ferulic acid 4-O-sulfate relaxes arteries, lowers blood pressure, and resists oxidative stress under conditions of iron overload in mice and HepG2 cells. Ferulic acid 4-O-sulfate is a metabolite of Ferulic acid.
Targets(IC50)	Drug Metabolite
In vivo	In male Swiss mice, Ferulic acid 4-O-sulfate (16.13 and 161.3 µg/kg; intravenous injection, once) significantly decreased the mean arterial pressure (MAP) immediately after intravenous injection[1].

Solubility Information

Solubility	DMSO: 8 mg/mL (29.17 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6463 mL	18.2315 mL	36.4631 mL
5 mM	0.7293 mL	3.6463 mL	7.2926 mL
10 mM	0.3646 mL	1.8232 mL	3.6463 mL
50 mM	0.0729 mL	0.3646 mL	0.7293 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

Van Rymenant E, et al. Ferulic acid-4-O-sulfate rather than ferulic acid relaxes arteries and lowers blood pressure in mice. J Nutr Biochem. 2017 Jun;44:44-51.

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