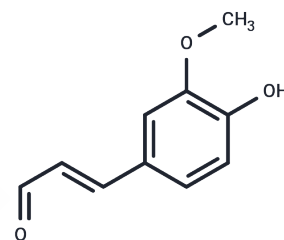


Coniferaldehyde

Chemical Properties

CAS No. :	458-36-6
Formula:	C ₁₀ H ₁₀ O ₃
Molecular Weight:	178.18
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Coniferaldehyde (Ferulaldehyde) is a member of the class of cinnamaldehydes that is cinnamaldehyde substituted by a hydroxy group at position 4 and a methoxy group at position 3. It has a role as an antifungal agent and a plant metabolite. It is a member of cinnamaldehydes, a phenylpropanoid and a member of guaiacols. It derives from a cinnamaldehyde.
Targets(IC50)	Apoptosis,Antioxidant

Solubility Information

Solubility	DMSO: 50 mg/mL (280.62 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	5.6123 mL	28.0615 mL	56.123 mL
5 mM	1.1225 mL	5.6123 mL	11.2246 mL
10 mM	0.5612 mL	2.8062 mL	5.6123 mL
50 mM	0.1122 mL	0.5612 mL	1.1225 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.

Reference

Kim, K., Heo, D., Kim, Y., Lee, J., Kim, N., & Bang, O. (2016). Coniferaldehyde inhibits LPS-induced apoptosis through the PKC α/β II/Nrf-2/HO-1 dependent pathway in RAW264.7 macrophage cells. *Environmental Toxicology And Pharmacology*, 48, 85-93. doi: 10.1016/j.etap.2016.10.016

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