

Ethyl 3,4,5-trimethoxybenzoate

Chemical Properties

CAS No. :	6178-44-5
Formula:	C ₁₂ H ₁₆ O ₅
Molecular Weight:	240.25
Storage:	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	Ethyl 3,4,5-trimethoxybenzoate is a natural product derived from Rauvolfia verticillata.
Targets(IC50)	Others
In vitro	<p>Method: B16F10 mouse melanoma cells were treated with ethyl 3,4,5-trimethoxybenzoate at concentrations of 2, 5, 10, 25, 50, or 100 µg/mL for 24, 48, or 72 h, and cell viability was evaluated using the MTS assay.</p> <p>Rresult: Cell viability generally remained around or above 80% under the tested conditions, whereas higher concentrations, particularly concentrations of at least 25 µg/mL, showed a greater cytotoxic tendency. Concentrations of 2-10 µg/mL were therefore used in subsequent activity assays.[1]</p> <p>Method: B16F10 mouse melanoma cells were stimulated with α-melanocyte-stimulating hormone and treated with ethyl 3,4,5-trimethoxybenzoate at concentrations of 0, 2, 5, or 10 µg/mL for 72 h. Tyrosinase protein expression was analyzed by Western blotting and normalized to HSP90.</p> <p>Rresult: Ethyl 3,4,5-trimethoxybenzoate reduced cellular tyrosinase protein expression, and treatment at 10 µg/mL produced a marked reduction that was greater than that observed with 125 µg/mL arbutin.[1]</p>

Solubility Information

Solubility	DMSO: 80.00 mg/mL (332.99 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	4.1623 mL	20.8117 mL	41.6233 mL
5 mM	0.8325 mL	4.1623 mL	8.3247 mL
10 mM	0.4162 mL	2.0812 mL	4.1623 mL
50 mM	0.0832 mL	0.4162 mL	0.8325 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

Shin J, et al. Antimelanogenic and antioxidant effects of trimethoxybenzene derivatives: methyl 3,4,5-trimethoxybenzoate, ethyl 3,4,5-trimethoxybenzoate, methyl 3,4,5-trimethoxycinnamate, and ethyl 3,4,5-trimethoxycinnamate. *J Appl Biol Chem.* 2022;65(4):299-306.

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