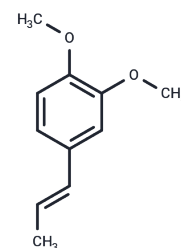


Methyl isoeugenol

Chemical Properties

CAS No. :	93-16-3
Formula:	C ₁₁ H ₁₄ O ₂
Molecular Weight:	178.23
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	methyl isoeugenol (MIE) is a natural food flavour that constitutes 93.7% of an essential oil from <i>Pimenta pseudocaryophyllus</i> leaf. The leaf extracts of this species are used as a calming agent. As a ubiquitous food additive, the application of MIE for treating mood disorders.
Targets(IC50)	Others
In vivo	Anti-immobility effect of Methyl isoeugenol?250 mg kg(-1) in the FST suggested an antidepressive like property.?Unlike AMPT, pretreatment with PCPA reversed the antidepressant like effect of Methyl isoeugenol.?Anxiolytic and antidepressant like properties of Methyl isoeugenol?and suggested the participation?of serotonergic pathways[1].

Solubility Information

Solubility	DMSO: 60 mg/mL (336.64 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	5.6107 mL	28.0536 mL	56.1073 mL
5 mM	1.1221 mL	5.6107 mL	11.2215 mL
10 mM	0.5611 mL	2.8054 mL	5.6107 mL
50 mM	0.1122 mL	0.5611 mL	1.1221 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

Fajemiroye J O , Galdino P M , De Paula J A M , et al. Anxiolytic and antidepressant like effects of natural food flavour (E)-methyl isoeugenol[J]. Food & Function, 2014, 5(8):1819.

Fajemiroye J O , Da Silva E F , De Oliveira T S , et al. Hypotensive and vasorelaxant effects of (E) - Methyl isoeugenol: A naturally occurring food flavour[J]. Food and Chemical Toxicology, 2014, 70:214-221.

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