

Isovanillin

Chemical Properties

CAS No. :	621-59-0
Formula:	C ₈ H ₈ O ₃
Molecular Weight:	152.147
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	Isovanillin (5-Formylguaiacol) is a reversible inhibitor of aldehyde oxidase. It is largely used as pharmaceutical intermediates and also applied in food and beverage industry, synthetic fragrances, chemical.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 45.00 mg/mL (295.77 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: 2.00 mg/mL (13.15 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	6.5725 mL	32.8623 mL	65.7246 mL
5 mM	1.3145 mL	6.5725 mL	13.1449 mL
10 mM	0.6572 mL	3.2862 mL	6.5725 mL
50 mM	0.1314 mL	0.6572 mL	1.3145 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

Panoutsopoulos GI, et al. Enzymatic oxidation of vanillin, isovanillin and protocatechuic aldehyde with freshly prepared Guinea pig liver slices. *Cell Physiol Biochem*. 2005;15(1-4):89-98.

Sadraei H, et al. Antidiarrheal activities of isovanillin, iso-acetovanillon and *Pycnocyclus spinosa* Decne ex.Boiss extract in mice. *Res Pharm Sci*. 2014 Mar-Apr;9(2):83-9.

Sadraei H, et al. Antispasmodic activity of isovanillin and isoacetovanillon in comparison with *Pycnocyclus spinosa* Decne.exBoiss extract on rat ileum. *Res Pharm Sci*. 2014 May-Jun;9(3):187-92.

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