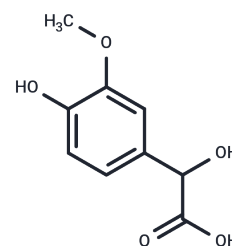


Vanillylmandelic acid

Chemical Properties

CAS No. :	55-10-7
Formula:	C ₉ H ₁₀ O ₅
Molecular Weight:	198.17
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	Vanillylmandelic acid, the end product of the metabolism of catecholamines, epinephrine, and norepinephrine, has antioxidant activity and is commonly used to help diagnose pheochromocytoma, as well as its elevation in association with depressive symptoms.
Targets(IC50)	Antioxidant, Endogenous Metabolite
Kinase Assay	In Vitro Protein-tyrosine Kinase Assays: Recombinant Syk is expressed in baculovirus-infected St9 cells. Assays of recombinant Syk activity are carried out using angiotensin I peptide as substrate. The enzyme activities of recombinant Syk are measured by phosphorylation of angiotensin I peptide in the presence of various concentrations of Piceatannol.

Solubility Information

Solubility	DMSO: 45 mg/mL (227.08 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 mg/mL (10.09 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	5.0462 mL	25.2309 mL	50.4617 mL
5 mM	1.0092 mL	5.0462 mL	10.0923 mL
10 mM	0.5046 mL	2.5231 mL	5.0462 mL
50 mM	0.1009 mL	0.5046 mL	1.0092 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

Kolentinis MK, et al. Eur J Pharmacol. 2013 Mar 5;703(1-3):46-52.

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