

Homovanillic acid

Chemical Properties

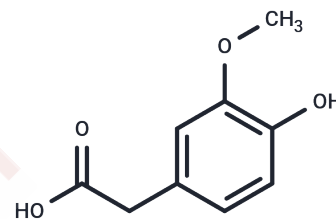
CAS No. : 306-08-1

Formula: C₉H₁₀O₄

Molecular Weight: 182.17

Storage: Keep away from direct sunlight, Store under nitrogen
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	Homovanillic acid (Vanillic acid), a dopamine metabolite, is linked to aromatic L-amino acid decarboxylase deficiency, growth hormone deficiency, celiac disease, and sepiapterin reductase deficiency.
Targets(IC50)	Endogenous Metabolite, Autophagy, Drug Metabolite

Solubility Information

Solubility	H ₂ O: 9.1 mg/mL (49.95 mM), Sonication is recommended. DMSO: 60 mg/mL (329.36 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 (10.98 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	5.4894 mL	27.4469 mL	54.8938 mL
5 mM	1.0979 mL	5.4894 mL	10.9788 mL
10 mM	0.5489 mL	2.7447 mL	5.4894 mL
50 mM	0.1098 mL	0.5489 mL	1.0979 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

Molero-Luis M , Serrano M , Aida Ormazábal, et al. Homovanillic acid in cerebrospinal fluid of 1388 children with neurological disorders[J]. Developmental Medicine & Child Neurology, 2013, 55(6):559-566.

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