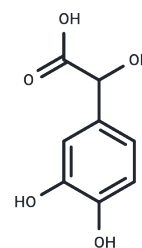


## 3,4-Dihydroxymandelic acid

## Chemical Properties

CAS No. :	775-01-9
Formula:	C <sub>8</sub> H <sub>8</sub> O <sub>5</sub>
Molecular Weight:	184.15
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	3,4-Dihydroxymandelic acid exists in all living organisms, ranging from bacteria to humans. Within humans, 3,4-dihydroxymandelic acid participates in a number of enzymatic reactions. 3,4-Dihydroxymandelic acid is a metabolite of norepinephrine.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 83.33 mg/mL (452.51 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: 3.3 mg/mL (17.92 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	5.4304 mL	27.1518 mL	54.3036 mL
5 mM	1.0861 mL	5.4304 mL	10.8607 mL
10 mM	0.543 mL	2.7152 mL	5.4304 mL
50 mM	0.1086 mL	0.543 mL	1.0861 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

Sule N, et al. The Norepinephrine Metabolite 3,4-Dihydroxymandelic Acid Is Produced by the Commensal Microbiota and Promotes Chemotaxis and Virulence Gene Expression in Enterohemorrhagic Escherichia coli. Infect Immun. 2017 Sep 20;85(10).

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