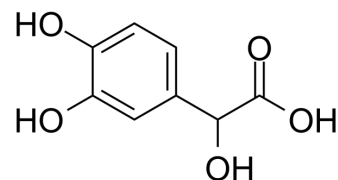


3,4-Dihydroxymandelic acid

Cat. No.:	HY-113474		
CAS No.:	775-01-9		
Molecular Formula:	C ₈ H ₈ O ₅		
Molecular Weight:	184.15		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (543.04 mM; Need ultrasonic)
 DMSO : 83.33 mg/mL (452.51 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.4304 mL	27.1518 mL	54.3036 mL
	5 mM	1.0861 mL	5.4304 mL	10.8607 mL
	10 mM	0.5430 mL	2.7152 mL	5.4304 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (11.30 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (11.30 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (11.30 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

3,4-Dihydroxymandelic acid is a metabolite of norepinephrine.

IC₅₀ & Target

Human Endogenous Metabolite

REFERENCES

[1]. 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).

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA