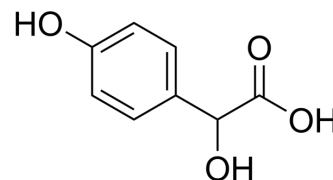


p-Hydroxymandelic acid

Cat. No.:	HY-113027		
CAS No.:	1198-84-1		
Molecular Formula:	C ₈ H ₈ O ₄		
Molecular Weight:	168.15		
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	DMSO : 22.22 mg/mL (132.14 mM; ultrasonic and warming and adjust pH to 2 with 1M HCl and heat to 60°C)			
		Solvent	Mass	
		Concentration	1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	5.9471 mL	29.7354 mL	59.4707 mL
	5 mM	1.1894 mL	5.9471 mL	11.8941 mL
	10 mM	0.5947 mL	2.9735 mL	5.9471 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.22 mg/mL (13.20 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.22 mg/mL (13.20 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	p-Hydroxymandelic acid is a valuable aromatic fine chemical and widely used for production of pharmaceuticals and food additives.
In Vitro	p-Hydroxymandelic acid (4-Hydroxymandelic acid; 4-HMA) is widely used in production of aromatic drugs and flavors. It is employed for the preparation of 4-hydroxyphenylacetic acid, which is the synthetic precursor of selective β ₁ -receptor antagonist drug atenolol. p-Hydroxymandelic acid can conjugate cytotoxic drug and enzyme substrate, and such a p-Hydroxymandelic acid based adaptor system showed promising application in the targeting drug delivery system ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Li FF, et al. Engineering Escherichia coli for production of 4-hydroxymandelic acid using glucose-xylosemixture. Microb Cell Fact. 2016 May 27;15:90.

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