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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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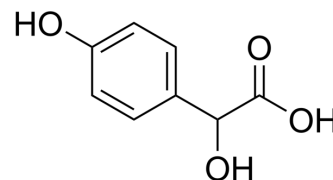
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p-Hydroxymandelic acid

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)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		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	1. 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					
	2. 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 β₁-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.

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