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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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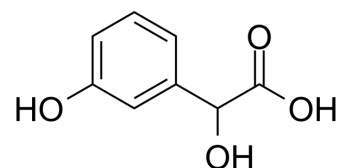
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3-Hydroxymandelic Acid

Cat. No.:	HY-W015326		
CAS No.:	17119-15-2		
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 : 100 mg/mL (594.71 mM; Need ultrasonic)				
		Solvent Concentration	Mass 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: ≥ 2.5 mg/mL (14.87 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (14.87 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (14.87 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	3-Hydroxymandelic Acid, a metabolite of Phenylephrine, Phenylephrine is a α-receptor agonist.
IC₅₀ & Target	Human Endogenous Metabolite
In Vitro	Phenylephrine, an alpha-receptor agonist is metabolized to m-hydroxyphenylglycol (MHPG) and m-hydroxymandelic acid (MHMA) in the human body ^[1] . It is probable that urinary MHMA originates from m-octopamine or m-syneprhine (Phenylephrine) or both ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Gumbhir K, et al. Determination of m-hydroxymandelic acid, m-hydroxyphenylglycol and their conjugates in human plasma using liquid chromatography with electrochemical detection. J Pharm Biomed Anal. 1994 Jul;12(7):943-9.
- [2]. Crowley JR, et al. Normal excretion of m-hydroxymandelic acid in hypertensive patients. Clin Chim Acta. 1981 Jan 22;109(2):125-31.
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Caution: Product has not been fully validated for medical applications. For research use only.

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