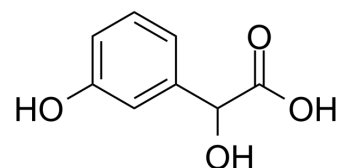


## 3-Hydroxymandelic Acid

<b>Cat. No.:</b>	HY-W015326		
<b>CAS No.:</b>	17119-15-2		
<b>Molecular Formula:</b>	C <sub>8</sub> H <sub>8</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	168.15		
<b>Target:</b>	Endogenous Metabolite		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (594.71 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	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.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (14.87 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (14.87 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (14.87 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	3-Hydroxymandelic Acid, a metabolite of Phenylephrine, Phenylephrine is a α-receptor agonist.
<b>IC<sub>50</sub> &amp; Target</b>	Human Endogenous Metabolite
<b>In Vitro</b>	Phenylephrine, an alpha-receptor agonist is metabolized to m-hydroxyphenylglycol (MHPG) and m-hydroxymandelic acid (MHMA) in the human body <sup>[1]</sup> . It is probable that urinary MHMA originates from m-octopamine or m-syneprhine (Phenylephrine) or both <sup>[1]</sup> .

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

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## REFERENCES

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- [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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