3-Hydroxymandelic Acid

Cat. No.: HY-W015326

CAS No.: 17119-15-2

Molecular Formula: $C_8H_8O_4$

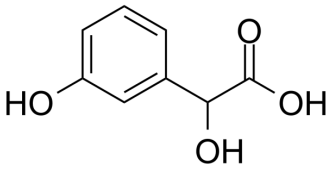
Molecular Weight: 168.15

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



BIOLOGICAL ACTIVITY

Description	3-Hydroxymandelic Acid, a metabolite of Phenylephrine, Phenylephrine is a α-receptor agonist.
IC_{50} & 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-synephrine (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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