
Product Data Sheet

Product Name: 3-Hydroxymandelic Acid

Cat. No.: GC30638

Chemical Properties

Cas. No. 17119-15-2

SMILES O=C(O)C(O)C1=CC=CC(O)=C1Formula C8H8O4

M.Wt 168.15

Solubility DMSO : 100 mg/mL (594.71 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

3-Hydroxymandelic Acid, a metabolite of Phenylephrine, Phenylephrine is a α -receptor agonist.

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].

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

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