
Product Data Sheet

Product Name: (S)-Higenamine hydrobromide

Cat. No.: GC62751

Chemical Properties

Cas. No. 105990-27-0

Formula $C_{16}H_{18}BrNO_3$

M.Wt

352.22

Solubility

Storage

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 (S)-Higenamine hydrobromide**Background**

(S)-Higenamine ((S)-Norcoclaurine) hydrobromide, a S-enantiomer of Higenamine, is the entry compound in benzylisoquinoline alkaloid biosynthesis. (S)-Higenamine hydrobromide is produced by the condensation of dopamine and 4-hydroxyphenylacetaldehyde (4-HPAA) by norcoclaurine synthase (NCS)[1].

The biosynthetic pathway leading to benzylisoquinoline alkaloids originates from the enzyme-catalyzed condensation of dopamine and 4-hydroxyphenylacetaldehyde to yield (S)-norcoclaurine. Both substrates are secondary metabolites derived from the decarboxylation/hydroxylation/deamination of tyrosine[1].

[1]. Minami H, et al. Functional analysis of norcoclaurine synthase in *Coptis japonica*. J Biol Chem. 2007;282(9):6274-6282.

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

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