Data Sheet (Cat.No.T38132)

TargetMol

(S)-Higenamine hydrobromide

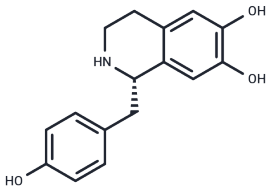
Chemical Properties

CAS No. : 105990-27-0

Formula: C16H18BrNO3

Molecular Weight: 352.22

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	(S)-Higenamine hydrobromide, an S-enantiomer of Higenamine, serves as the preliminary compound in benzylisoquinoline alkaloid biosynthesis. It is formed through the condensation of dopamine and 4-hydroxyphenylacetaldehyde (4-HPAA) via norcoclaurine synthase (NCS)[1].
Targets(IC50)	Others,Endogenous Metabolite
In vitro	The biosynthetic pathway for benzylisoquinoline alkaloids begins with the enzyme-catalyzed condensation of dopamine and 4-hydrophenylacetaldehyde, producing (S)-norcoclaurine. These substrates are secondary metabolites stemming from the decarboxylation, hydroxylation, and deamination of tyrosine[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8391 mL	14.1957 mL	28.3913 mL
5 mM	0.5678 mL	2.8391 mL	5.6783 mL
10 mM	0.2839 mL	1.4196 mL	2.8391 mL
50 mM	0.0568 mL	0.2839 mL	0.5678 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

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