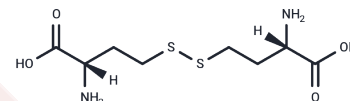


L-Homocystine

Chemical Properties

CAS No. :	626-72-2
Formula:	C8H16N2O4S2
Molecular Weight:	268.35
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	Homocystine is the double-bonded form of homocysteine, but it occurs only transiently before being converted to the harmless cystathionine via a vitamin B6-dependent enzyme. Increasing evidence supports a role for an elevation of homocysteine in schizophrenia. It has been demonstrated that neural tube defects are related to a genetic defect in homocysteine metabolism. Sufficient intake of folic acid is believed to reduce this risk by enhancing methylation of homocysteine and its conversion to methionine, thereby compensating for this genetic defect (homocystinuria). Plasma homocysteine levels are elevated when folate levels are in the lower half of the normal range.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: Insoluble, H2O: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7265 mL	18.6324 mL	37.2648 mL
5 mM	0.7453 mL	3.7265 mL	7.453 mL
10 mM	0.3726 mL	1.8632 mL	3.7265 mL
50 mM	0.0745 mL	0.3726 mL	0.7453 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

Carson N A J , Dent C E , Field C M B , et al. Homocystinuria: Clinical and pathological review of ten cases[J]. Journal of Pediatrics, 1965, 66(3).

Kerrin D , Murdoch E D , Livingston J , et al. Homocystinuria presenting with sagittal sinus thrombosis in infancy.[J]. Journal of Child Neurology, 1996, 11(1):70-1.

Bhardwaj P, Sharma R, Sharma M. Homocystinuria: A rare condition presenting as stroke and megaloblastic anemia.[J]. Journal of Pediatric Neurosciences, 2010, 5(2):129-131.

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