

CBHcy

Chemical Properties

CAS No. : 88096-02-0

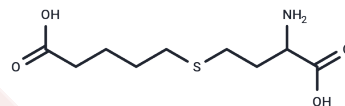
Formula: C₉H₁₇NO₄S

Molecular Weight: 235.3

Keep away from moisture

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	CBHcy is a dual-substrate analogue, a specific BHMT inhibitor that causes betaine-homocysteine S-methyltransferase (BHMT) to adopt the same conformation as the ternary complex, potentially inducing the development of cysteinemia.
Targets(IC50)	DNA Methyltransferase,Transferase

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble) DMSO: < 1 mg/mL (insoluble) H ₂ O: < 1 mg/mL (insoluble) 0.1M HCl: 1.56 mg/mL (6.63 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2499 mL	21.2495 mL	42.4989 mL
5 mM	0.850 mL	4.2499 mL	8.4998 mL
10 mM	0.425 mL	2.1249 mL	4.2499 mL
50 mM	0.085 mL	0.425 mL	0.850 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

Collinsova M, et al. Inhibition of betaine-homocysteine S-methyltransferase causes hyperhomocysteinemia in mice. J Nutr. 2006 Jun;136(6):1493-7.

Strakova J, et al. Inhibition of betaine-homocysteine S-methyltransferase in rats causes hyperhomocysteinemia and reduces liver cystathionine β -synthase activity and methylation capacity. Nutr Res. 2011 Jul;31(7):563-71.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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