

Cystathionine-γ-lyase-IN-1

Chemical Properties

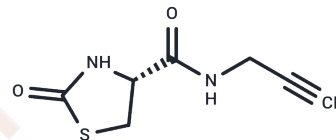
CAS No. : 2165706-30-7

Formula: C₇H₈N₂O₂S

Molecular Weight: 184.22

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	Cystathionine-γ-lyase-IN-1 (SHIP-2a) is a selective inhibitor of cystathionine γ-lyase (CSE) enzyme (IC ₅₀ = 6.3 μM).
Targets(IC ₅₀)	Others
In vitro	Cystathionine-γ-lyase-IN-1 (100 μM) completely abrogates L-cysteine-induced vasorelaxation. Cystathionine-γ-lyase-IN-1 (100 μM; 30 minutes) significantly inhibits the increased H ₂ S production stimulated by L-cysteine in mouse aorta homogenates[1].

Solubility Information

Solubility	DMSO: 55 mg/mL (298.56 mM),Sonication is recommended. Ethanol: 8.1 mg/mL (43.97 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.4283 mL	27.1415 mL	54.2829 mL
5 mM	1.0857 mL	5.4283 mL	10.8566 mL
10 mM	0.5428 mL	2.7141 mL	5.4283 mL
50 mM	0.1086 mL	0.5428 mL	1.0857 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

Angela Corvino, et al. Fragment-based de novo design of a cystathionine γ -lyase selective inhibitor blocking hydrogen sulfide production. Sci Rep. 2016 Oct 6;6:34398.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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