

Propargylcholine

Chemical Properties

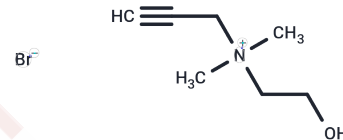
CAS No. : 111755-76-1

Formula: C7H14BrNO

Molecular Weight: 208.1

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Propargylcholine (Propargylcholine (bromide)) is an alkyne-modified choline analog and inhibits choline catabolism at the level of Dgc enzyme-catalyzed dimethylglycine demethylation in <i>Pseudomonas aeruginosa</i> .
Targets(IC50)	Antibacterial

Solubility Information

Solubility	DMF: 30 mg/mL (144.16 mM), Sonication is recommended. Ethanol: 30 mg/mL (144.16 mM), Sonication is recommended. DMSO: 55 mg/mL (264.3 mM), Sonication is recommended. PBS (pH 7.2): 10 mg/mL (48.05 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	4.8054 mL	24.0269 mL	48.0538 mL
5 mM	0.9611 mL	4.8054 mL	9.6108 mL
10 mM	0.4805 mL	2.4027 mL	4.8054 mL
50 mM	0.0961 mL	0.4805 mL	0.9611 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

Fitzsimmons LF, et al. Small-molecule inhibition of choline catabolism in *Pseudomonas aeruginosa* and other aerobic choline-catabolizing bacteria. *Appl Environ Microbiol.* 2011 Jul;77(13):4383-9.

Snodgrass CJ, et al. Conserved ion and amino acid transporters identified as phosphorylcholine-modified N-glycoproteins by metabolic labeling with propargylcholine in *Caenorhabditis elegans* cells. *Glycobiology.* 2015 Apr;25(4):403-11.

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