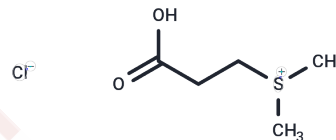


Dimethylpropiothetin hydrochloride

Chemical Properties

CAS No. :	4337-33-1
Formula:	C ₅ H ₁₁ ClO ₂ S
Molecular Weight:	170.66
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Dimethylpropiothetin hydrochloride (s,s-Dimethyl-β-propionic acid thetine) is a sulfur-containing natural metabolite derived from marine algae. Dimethylpropiothetin is a precursor of dimethyl sulfide (DMS) and is involved in osmoregulation in microalgae such as <i>Hymenomonas carterae</i> .
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 40 mg/mL (234.38 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	5.8596 mL	29.298 mL	58.596 mL
5 mM	1.1719 mL	5.8596 mL	11.7192 mL
10 mM	0.586 mL	2.9298 mL	5.8596 mL
50 mM	0.1172 mL	0.586 mL	1.1719 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

Vairavamurthy A, et al. Biosynthesis of dimethylsulfide and dimethylpropiothetin by *Hymenomonas carterae* in relation to sulfur source and salinity variations[J]. *Limnology and Oceanography*, 1985, 30(1): 59-70.

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