

## Isethionic acid

## Chemical Properties

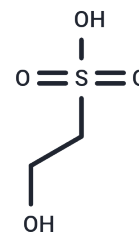
CAS No. : 107-36-8

Formula: C<sub>2</sub>H<sub>6</sub>O<sub>4</sub>S

Molecular Weight: 126.13

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	Isethionic acid, a major metabolite in <i>F. cylindrus</i> , is an organosulfur compound containing a short-chain alkane sulfonate linked to a hydroxyl group. It is a water-soluble liquid for the manufacture of mild, biodegradable, and high-foaming anionic surfactants.
Targets(IC50)	Others,Mitochondrial Metabolism,Endogenous Metabolite,Parasite

## Solubility Information

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

	1mg	5mg	10mg
1 mM	7.9283 mL	39.6416 mL	79.2833 mL
5 mM	1.5857 mL	7.9283 mL	15.8567 mL
10 mM	0.7928 mL	3.9642 mL	7.9283 mL
50 mM	0.1586 mL	0.7928 mL	1.5857 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

- Boroujerdi AF, Lee PA, DiTullio GR, Janech MG, Vied SB, Bearden DW. Identification of isethionic acid and other small molecule metabolites of *Fragilariopsis cylindrus* with nuclear magnetic resonance. *Anal Bioanal Chem.* 2012 Aug;404(3):777-84. doi: 10.1007/s00216-012-6169-2. Epub 2012 Jul 8. PubMed PMID: 22772138.
- Hellio C, Simon-Colin C, Clare AS, Deslandes E. Isethionic acid and floridoside isolated from the red alga, *Grateloupia turuturu*, inhibit settlement of *Balanus amphitrite* cyprid larvae. *Biofouling.* 2004 Jun;20(3):139-45. PubMed PMID: 15545063.
- Lombardini JB. Enzymatic formation of a cholic acid derivative of isethionic acid. *Biochem Pharmacol.* 1976 Mar 15; 25(6):717-21. PubMed PMID: 179555.
- Miquel M, Correa M, Sanchis-Segura C, Aragon CM. The ethanol-induced open-field activity in rodents treated with isethionic acid, a central metabolite of taurine. *Life Sci.* 1999;64(18):1613-21. PubMed PMID: 10328521.

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