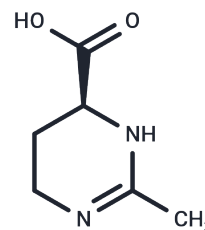


Ectoine

Chemical Properties

CAS No. :	96702-03-3
Formula:	C ₆ H ₁₀ N ₂ O ₂
Molecular Weight:	142.16
Storage:	Store at low temperature 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	Ectoine (L-Ectoine) is an osmoprotectant in a variety of microorganisms including halophilic and heterotrophic bacteria and non-halophilic bacteria such as the Streptomyces species, as well as E.coli.
Targets(IC50)	Antibacterial

Solubility Information

Solubility	H ₂ O: 10 mM, Sonication is recommended. DMSO: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.0343 mL	35.1716 mL	70.3433 mL
5 mM	1.4069 mL	7.0343 mL	14.0687 mL
10 mM	0.7034 mL	3.5172 mL	7.0343 mL
50 mM	0.1407 mL	0.7034 mL	1.4069 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

Meyer S., et al. Ectoine can enhance structural changes in DN/A in vitro. Sci Rep. 2017 Aug 3;7(1):7170.

Chen D D, Fang B Z, Manzoor A, et al. Revealing the salinity adaptation mechanism in halotolerant bacterium *Egicoccus halophilus* EGI 80432 T by physiological analysis and comparative transcriptomics. Applied Microbiology and Biotechnology. 2021, 105(6): 2497-2511.

Bownik A., et al. Ectoine as a promising protective agent in humans and animals. Arh Hig Rada Toksikol. 2016 Dec 1;67(4):260-265.

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