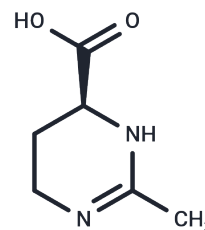


Ectoine

Chemical Properties

CAS No. :	96702-03-3
Formula:	C ₆ H ₁₀ N ₂ O ₂
Molecular Weight:	142.16
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



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 <i>Streptomyces</i> species, as well as <i>E.coli</i> .
Targets(IC50)	Others,Antibacterial

Solubility Information

Solubility	H ₂ O: 10 mM, 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.

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

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