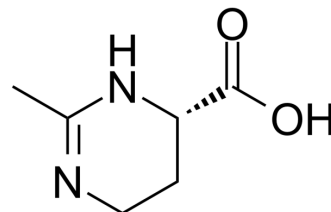


Ectoine

Cat. No.:	HY-107784
CAS No.:	96702-03-3
Molecular Formula:	C ₆ H ₁₀ N ₂ O ₂
Molecular Weight:	142.16
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 250 mg/mL (1758.58 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
		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
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (703.43 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Ectoine is a natural cell protectant, an amino acid derivate produced by bacteria living under extremely harsh environmental conditions. Ectoine serves as an osmoregulatory compatible solute, increasing the hydration of the skin surface and stabilizing lipid layers, which is useful in skincare. Ectoine demonstrates a good safety profile for the treatment of allergic rhinitis ^{[1][2]} .
IC ₅₀ & Target	Bacterial ^[1]
In Vitro	Ectoine (0-5% (w/v); 0-24 h; human erythrocytes) protects the cells from damage caused by SDS treatment ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.

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