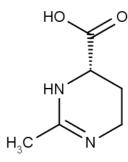




Ectoine, technical grade

Stability: stable at room temperature



Background

Ectoine (1,4,5,6-tetrahydro-2-methyl-4-pyrimidinecarboxylic acid) is a natural compound found in several species of bacteria. It is a compatible solute which serves as a protective substance by acting as an osmolyte and thus helps organisms survive extreme osmotic stress. Ectoine is found in high concentrations in halophilic microorganisms and confers resistance towards salt and temperature stress. Ectoine was first identified in the microorganism *Ectothiorhodospira halochloris*, but has since been found in a wide range of gram-negative and gram-positive bacteria. Ectoine is able to protect and stabilize proteins (0.1-1 mM), nucleic acids (0.1-10 mM) and membranes. Technical grade is not recommended for DNA protection.

Tests Specifications

Appearance: white crystalline powder

Ectoine (HPLC): ≥95% Hydroxyectoine (HPLC): ≤5% pH (2%, water): 6.0 - 8.0Optical rotation [α]₂₀D: +139 - +145 Water (K.F.): ≤0.5% Endotoxins: ≤3000 EU/q

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.