Phytanoyl-CoA dioxygenase Protein, Actinophytocola oryzae

Cat. No.:	HY-P702105
Synonyms:	Ectoine hydroxylase
Species:	Others
Source:	E. coli
Accession:	A0A4R7W2E1 (M1-F266)
Gene ID:	/
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 μm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	Phytanoyl-CoA dioxygenase (PHYH) is an enzyme critical for the alpha-oxidation of phytanic acid, a branched-chain fatty acid. PHYH catalyzes the conversion of phytanoyl-CoA to 2-hydroxyphytanoyl-CoA, initiating the degradation pathway. This process is essential for preventing the accumulation of phytanic acid, which is associated with Refsum disease. PHYH's role underscores its significance in maintaining lipid homeostasis and preventing metabolic disorders.

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

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