

D-hydantoinase Protein, *Arthrobacter crystallopoietes* (His)

Cat. No.:	HY-P702135
Synonyms:	Dihydropyrimidinase
Species:	Others
Source:	E. coli
Accession:	A0A1H1C1X0 (M1-R457)
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.
Reconstitution	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	D-hydantoinase, a protein belonging to the metallo-dependent hydrolases superfamily and the hydantoinase/dihydropyrimidinase family, plays a crucial role in carbamylation, a process where a single lysine residue coordinates two divalent metal cations. This protein is involved in hydantoin hydrolysis, participating in the conversion of hydantoins to alpha-amino acids. The dual metal coordination underscores its significance in catalyzing these reactions. As a member of the metallo-dependent hydrolases superfamily, D-hydantoinase likely shares conserved structural and functional features with related enzymes. The ability to coordinate two metal cations further suggests a unique mechanism for substrate binding and catalysis within this enzyme family.
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Caution: Product has not been fully validated for medical applications. For research use only.

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