

DPEase Protein, *Ruminiclostridium cellulolyticum* (FLAG, His)

Cat. No.:	HY-P702112
Synonyms:	D-psicose 3-epimerase; DPEase
Species:	Others
Source:	E. coli
Accession:	B81944 (M1-S293)
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	The DPEase Protein plays a pivotal role in the biosynthesis of D-psicose, orchestrating the reversible epimerization of D-fructose at the C3 position to yield D-psicose. This enzyme demonstrates a remarkable specificity for D-psicose, highlighting its essential contribution to the precise formation of this sugar. Notably, the enzyme exhibits minimal activity with D-tagatose, underscoring its discerning nature and limited reactivity towards this particular substrate.
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Caution: Product has not been fully validated for medical applications. For research use only.

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