

fum Protein, *Corynebacterium glutamicum* (His)

Cat. No.:	HY-P702122
Synonyms:	fumC; Fumarate hydratase class II; Fumarase C; Aerobic fumarase; Iron-independent fumarase
Species:	Others
Source:	E. coli
Accession:	Q8NRN8 (M1-F469)
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 fum Protein plays a crucial role in the tricarboxylic acid (TCA) cycle, where it catalyzes the stereospecific interconversion of fumarate to L-malate. This enzymatic activity is pivotal for maintaining the flow of metabolites within the TCA cycle, a central pathway in cellular energy metabolism. The conversion of fumarate to L-malate by fum is a key step that contributes to the production of energy and the generation of intermediates essential for various cellular processes. The precise regulation of this enzymatic reaction highlights the significance of fum in orchestrating metabolic flux and energy production within the cell.
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Caution: Product has not been fully validated for medical applications. For research use only.

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