

## eltD Protein, Mycolicibacterium smegmatis 155 (His, Strep)

Cat. No.:	HY-P701876
Synonyms:	eltD; Erythritol/L-threitol dehydrogenase
Species:	Others
Source:	E. coli
Accession:	A0QXD8 (S2-A362)
Gene ID:	66734665
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	gdh2 protein plays a pivotal role in cellular metabolism by catalyzing the NAD(P)(+)-dependent oxidation of D-glucose to D-gluconate through the formation of gluconolactone. Remarkably versatile, it exhibits the ability to utilize both NAD(+) and NADP(+) as electron acceptors. Operating within the framework of the Entner-Doudoroff pathway, gdh2 is instrumental in the non-phosphorylative degradation of glucose. This multifaceted enzymatic activity underscores its importance in the cellular machinery responsible for glucose catabolism, contributing to the generation of metabolic intermediates essential for various cellular processes.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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