gdh2 Protein, Saccharolobus solfataricus (His, Strep)

Cat. No.: HY-P701896

Synonyms: gdh2; Glucose 1-dehydrogenase 2; GDH 2; GlcDH 2

Species: Others

Source: E. coli

Accession: Q97UH6 (K2-E368)

Gene ID: 72911600

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	The gdh2 protein functions as an enzyme that catalyzes the NAD(P)(+)-dependent oxidation of D-glucose to D-gluconate, utilizing gluconolactone as an intermediate. Notably, this enzyme is versatile and can employ both NAD(+) and NADP(+) as electron acceptors in the reaction. Its involvement in the non-phosphorylative variant of the Entner-Doudoroff pathway highlights its role in the degradation of glucose, contributing to cellular energy metabolism and carbon utilization.

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