

## GOX2015 Protein, *Gluconobacter oxydans*

Cat. No.:	HY-P702123
Synonyms:	Glucose 1-dehydrogenase
Species:	Others
Source:	E. coli
Accession:	Q5FPE5 (P2-S266)
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	GOX2015 Protein exhibits the capability to oxidize both D-glucose and D-mannose, displaying a distinct preference for the latter with a catalytic efficiency approximately 15 times greater than that observed with glucose. This enzymatic activity is strictly reliant on the presence of NADP, emphasizing its crucial role as a cofactor for the oxidation process. The substrate specificity and dependence on NADP underscore the unique biochemical characteristics of GOX2015, shedding light on its potential functional significance in cellular metabolic pathways.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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