

## Glucose dehydrogenase, recombinant Microorganisms

Cat. No.:	HY-P3186
CAS No.:	9028-53-9
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### Glucose dehydrogenase

#### BIOLOGICAL ACTIVITY

##### Description

Glucose dehydrogenase, recombinant Microorganisms is an oxidoreductase. Glucose dehydrogenase (GDH) catalyzes the oxidation of  $\beta$ -D-glucose to  $\beta$ -D-glucono-1,5-lactone with simultaneous reduction of the cofactor  $\text{NADP}^+$  to NADPH or, to a lesser extent,  $\text{NAD}^+$  to NADH. Glucose dehydrogenase (GDH) accepts both  $\text{NAD}^+$  and  $\text{NADP}^+$  as cofactors and can be used for the regeneration of NADH and NADPH<sup>[1][2]</sup>.

#### REFERENCES

- [1]. Weckbecker, A., et al. Glucose Dehydrogenase for the Regeneration of NADPH and NADH. *Microbial Enzymes and Biotransformations*, 2005, 225-238.
- [2]. Ferri S, et al. Review of glucose oxidases and glucose dehydrogenases: a bird's eye view of glucose sensing enzymes. *J Diabetes Sci Technol*. 2011 Sep 1;5(5):1068-76.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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