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Glycerol-3-phosphate dehydrogenase, *Saccharomyces cerevisiae*

Cat. No.:	HY-E70417
CAS No.:	9001-49-4
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

Glycerol-3-phosphate dehydrogenase, *Saccharomyces cerevisiae*

BIOLOGICAL ACTIVITY

Description

Glycerol-3-phosphate dehydrogenase, *Saccharomyces cerevisiae*, is an enzyme involved in glycerol metabolism and energy production, responsible for catalyzing the oxidation of glycerol-3-phosphate (G3P) to dihydroxyacetone phosphate (DHAP). Glycerol-3-phosphate dehydrogenase, *Saccharomyces cerevisiae*, is the rate-limiting enzyme in glycerol production in *Saccharomyces cerevisiae*, and helps *Saccharomyces cerevisiae* adapt to high osmotic environments by regulating glycerol production and accumulation. Glycerol-3-phosphate dehydrogenase, *Saccharomyces cerevisiae*, can be used in research within the field of metabolic engineering^{[1][2]}.

REFERENCES

- [1]. Remize F, et al. Glycerol export and glycerol-3-phosphate dehydrogenase, but not glycerol phosphatase, are rate limiting for glycerol production in *Saccharomyces cerevisiae*. *Metab Eng*. 2001 Oct;3(4):301-12.
- [2]. Blomberg A, et al. Roles of glycerol and glycerol-3-phosphate dehydrogenase (NAD⁺) in acquired osmotolerance of *Saccharomyces cerevisiae*. *J Bacteriol*. 1989 Feb;171(2):1087-92.

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

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