

## Glucose-6-phosphate dehydrogenase, Microorganism

Cat. No.:	HY-125863		
CAS No.:	9001-40-5		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

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### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : ≥ 100 mg/mL

\* "≥" means soluble, but saturation unknown.

### BIOLOGICAL ACTIVITY

#### Description

Glucose-6-phosphate dehydrogenase, Microorganism is the rate-limiting enzyme of the pentose phosphate pathway. Glucose-6-phosphate dehydrogenase is a major source of NADPH that is required by many essential cellular systems including the antioxidant pathways, nitric oxide synthase, NADPH oxidase, cytochrome p450 system, and others. Glucose-6-phosphate dehydrogenase can be used for the research of diabetes, aldosterone-induced endothelial dysfunction, and cancer<sup>[1]</sup>.

### REFERENCES

[1]. Stanton RC. Glucose-6-phosphate dehydrogenase, NADPH, and cell survival. IUBMB Life. 2012 May;64(5):362-9.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA