

## PGD Protein, Human (His)

Cat. No.:	HY-P73376
Synonyms:	6-phosphogluconate dehydrogenase, decarboxylating; PGD; PGDH
Species:	Human
Source:	E. coli
Accession:	P52209 (M1-A483)
Gene ID:	5226
Molecular Weight:	Approximately 46 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 8.0. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	PGD Protein plays a pivotal role in cellular metabolism by catalyzing the oxidative decarboxylation of 6-phosphogluconate, leading to the formation of ribulose 5-phosphate and the release of CO <sub>2</sub> . This enzymatic process is coupled with the simultaneous reduction of NADP to NADPH, contributing to vital cellular redox balance. The functionality of PGD Protein in mediating these biochemical reactions underscores its significance in maintaining cellular homeostasis and participating in key metabolic pathways.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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