

PGD Protein, Human, Recombinant (His)

General Information

Synonyms:	6PGD;phosphogluconate dehydrogenase
Protein Construction:	A DNA sequence encoding the human PGD (P52209) (Met 1-Ala 483) was expressed, with a polyhistidine tag at the N-terminus. Predicted N terminal: Met
Species:	Human
Expression Host:	E. coli
Accession:	P52209
Molecular Weight:	54.6 kDa (predicted); 46 kDa (reducing conditions)

QC Testing

Biological Activity:	Measured by its ability to dehydrogenate 6phosphogluconic acid. The specific activity is > 2500 pmols/min/ μ g
Purity:	> 88 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS, pH 8.0. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Reference

- Baillet A, et al. (2011) Coupling of 6-phosphogluconate dehydrogenase with NADPH oxidase in neutrophils: Nox2 activity regulation by NADPH availability. *FASEB J.* 25(7): 2333-43.
- Rho HK, et al. (2005) Transcriptional regulation of mouse 6-phosphogluconate dehydrogenase by ADD1/SREBP1c. *Biochem Biophys Res Commun.* 332(1): 288-96.
- Broedel SE, et al. (1990). Genetic tagging, cloning, and DNA sequence of the *Synechococcus* sp. strain PCC 7942 gene (gnd) encoding 6-phosphogluconate dehydrogenase. *J Bacteriol.* 172 (7): 4023-31.
- Adams MJ, et al. (1983). The three dimensional structure of sheep liver 6-phosphogluconate dehydrogenase at 2.6 Å resolution. *EMBO J.* 2 (6): 1009-14.

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