# Recombinant Human PGD Protein (Human Cells, His Tag)

Catalog Number: PKSH033424



Note: Centrifuge before opening to ensure complete recovery of vial contents.

### **Description**

**Synonyms** 6-phosphogluconate dehydrogenase;Decarboxylating;PGD;PGDH;6PGD

Species Human

**Expression Host** HEK293 Cells **Sequence** Met 1-Ala483

AccessionP52209Calculated Molecular Weight54.2 kDaObserved molecular weight58 kDaTagC-His

## **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per  $\mu g$  of the protein as determined by the LAL method.

**Storage** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

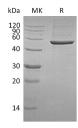
**Shipping** This product is provided as liquid. It is shipped at frozen temperature with blue

ice/gel packs. Upon receipt, store it immediately at < - 20°C.

**Formulation** Supplied as a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

**Reconstitution** Not Applicable

#### Data



> 95 % as determined by reducing SDS-PAGE.

## **Background**

6-phosphogluconate dehydrogenase(PGD) is a cytoplasm-located protein; and belongs to the 6-phosphogluconate dehydrogenase family. 6PGD is the second dehydrogenase in the pentose phosphate shunt. It catalyzes the oxidative decarboxylation of 6-phosphogluconate to ribulose 5-phosphate and CO2; with concomitant reduction of NADP to NADPH. Mutations within the gene coding this enzyme result in 6-phosphogluconate dehydrogenase deficiency; an autosomal hereditary disease effecting the red blood cells.

#### For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: <u>www.elabscience.com</u> Email: <u>techsupport@elabscience.com</u>