

## 32-8454: Recombinant Human 6-Phosphogluconate Dehydrogenase, Decarboxylating/PGD (C-6His)

**Gene :** PGD  
**Gene ID :** 5226  
**Uniprot ID :** P52209

### Description

Source: Human Cells.

MW :54.2kD.

Recombinant Human 6PGD is produced by our Mammalian expression system and the target gene encoding Met1-Ala483 is expressed with a 6His tag at the C-terminus. 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 CO<sub>2</sub>, 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MAQADIALIGLAVMGQNLILNMNDHGFVVCFAFNRTVSKVDDFLANEAKGTKVVGQAQSLKEMVSKLKKPRRIILLVKAGQAVDDFIEKLVPLLDGTGDIIDGGNSEYRDTRRCRDLKAKGILFVSGVSGGEEGARYGPSLMPGGNKEAWPHIKTIFQGIAAKVGTGEPCCDWVGDEGAGHFVKMVHNGIEYGDMQLICEAYHLMKDVLGMAQDEMAQA FEDWNKTELD SFLIEITANILKFQD TDGKHLLPKIRDSAGQKGTGKWT AISALEYGVPTLIGEAVFARCLSSLKD ERIQASKKLGPKQKFQFDGDKKSFLEDIRKALYASKIISYAQGFMLLRQAATEFGWTLN YGGI ALMWRGGCIIRS VFLGKIKDAFDRNPELQNL LLDFFKSAVENCQDSWRRRAVSTGVQAGIPMPCFTTALS FYDGYRHEMLPASLIQ AQRDYFGAHTYELLA KPGQFIHTNWTGHGGTVSSSSYNAVDHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.