

Recombinant Human PGD Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PGD-6075H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PGD MS Standard C13 and N15-labeled recombinant protein (NP_002622) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	6-phosphogluconate dehydrogenase is the second dehydrogenase in the pentose phosphate shunt. Deficiency of this enzyme is generally asymptomatic, and the inheritance of this disorder is autosomal dominant. Hemolysis results from combined deficiency of 6-phosphogluconate dehydrogenase and 6-phosphogluconolactonase suggesting a synergism of the two enzymopathies. Several transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	53.1 kDa
AA Sequence	MAQADIALIGLAVMGQNLILNMNDHGFVVCAFNRTVSKVDDFLANEAKGTKVVGAQ SLKEMVSKLKKPRRIILLVKAGQAVDDFIEKLVPLLDTGDIIDGGNSEYRDTTRRCRD LKAKGILFVGSGVSGGEEGARYGPSLMPGGNKEAWPHIKTIFQGIAAKVGTGEPCC DWVGDEGAGHFVKMVHNGIEYGDMQLICEAYHLMKDVLGMAQDEMAQAFEDWNK TELDSFLIEITANILKFQD TDGKHLLPKIRDSAGQKGTGKWT AISALEYGVPTLIGEAV FARCLSSLKDERIQASKKLKGPQKFQFDGDKKSFLDIRKALYASKIISYAQGFMLLR QAATEFGWTLNYGGIALMWRGGCIIRSVFLGKIKDAFDRNPELQNLLDDFFKSAVE

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NCQDSWRRVSTGVQAGIPMPCFTTALSFYDGYRHEMLPASLIQAQRDYFGAHTYE
LLAKPGQFIHTNWTGHGGTVSSSSYNATRTRPLEQKLISEEDLAANDILDYKDDDDK
V

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PGD phosphogluconate dehydrogenase [Homo sapiens (human)]

Official Symbol PGD

Synonyms PGD; phosphogluconate dehydrogenase; 6-phosphogluconate dehydrogenase, decarboxylating; 6PGD;

Gene ID 5226

mRNA Refseq NM_002631

Protein Refseq NP_002622

MIM 172200

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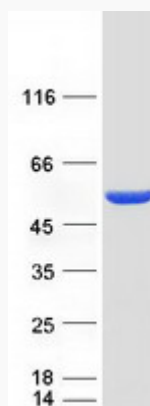
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UniProt ID

P52209

SDS-PAGE

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