# Recombinant Full Length Human PGD Protein, C-Flag-tagged

**Cat. No.** PGD-2048HFL **Lot. No.** (See product label)

## SPECIFICATION

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|---|---|
| **Product Overview** | Recombinant Full Length Human PGD Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells. |
| **Species** | Human |
| **Source** | Mammalian Cells |
| **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. |
| **Form** | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| **Molecular Mass** | 53 kDa |
| **AA Sequence** | MAQADIALIGLAVMGQNLILNMNDHGFVVCAFNRTVSKVDDFLANEAKGTKVVGAQ SLKEMVSKLKKPRR IILLVKAGQAVDDFIEKLVPLLDTGDIIIDGGNSEYRDTTRRCRD LKAKGILFVGSGVSGGEEGARYGPS LMPGGNKEAWPHIKTIFQGIAAKVGTGEPCC DWVGDEGAGHFVKMVHNGIEYGDMQLICEAYHLMKDVLG MAQDEMAQAFEDWN KTELDSFLIEITANILKFQDTDGKHLLPKIRDSAGQKGTGKWTAISALEYGVPVTL IGE AVFARCLSSLKDERIQASKKLKGPQKFQFDGDKKSFLEDIRKALYASKIISYAQGFML LRQAATEFG WTLNYGGIALMWRGGCIIRSVFLGKIKDAFDRNPELQNLLLDDFFKSA |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

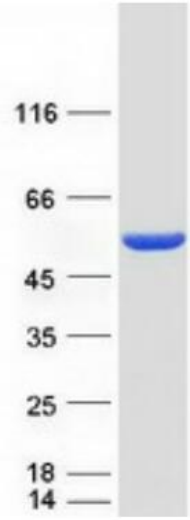
| | |
|---|---|
| | VENCQDSWRRAVSTGVQAGIPM PCFTTALSFYDGYRHEMLPASLIQAQRDYFGAH TYELLAKPGQFIHTNWTGHGGTVSSSSYNA TRTRPLEQKLISEEDLAANDILDYKDD DDKV |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining. |
| **Stability** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **Storage** | Store at -80 centigrade. |
| **Concentration** | >50 ug/mL as determined by microplate BCA method. |
| **Preparation** | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| **Protein Pathways** | Glutathione metabolism, Metabolic pathways, Pentose phosphate pathway |
| **Full Length** | Full L. |

## GENE INFORMATION

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| **Gene Name** | PGD phosphogluconate dehydrogenase [ Homo sapiens (human) ] |
| **Official Symbol** | PGD |
| **Synonyms** | 6PGD |
| **Gene ID** | 5226 |
| **mRNA Refseq** | NM_002631.4 |

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| | |
|---|---|
| **Protein Refseq** | NP_002622.2 |
| **MIM** | 172200 |
| **UniProt ID** | P52209 |




Coomassie blue staining of purified PGD protein.

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