

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

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

SPECIFICATION

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 IILLVKAGQAVDDFIEKLVPLDGTGDIIDGGNSEYRDTTRRCRD LKAKGILFVGSGVSGGEEGARYGPS LMPGGNKEAWPHIKTIFQGIAAKVGTGEPCC DWVGDEGAGHFVKMVHNGIEYGDMQLICEAYHLMKDVLG MAQDEMAQAFEDWN KTELDSFLIEITANILKFQDTDGKHLLPKIRDSAGQKGTGKWTASALEYGVPVTL IGE AVFARCLSSLKDERIQASKKLKGPQKFQFDGDKKSFLDIRKALYASKIISYAQGFML LRQAATEFG WTLNYGGIALMWRGGCIIRSVFLGKIKDAFDRNPQLNLLDDFFKSA

 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

VENCQDSWRRRAVSTGVQAGIPM 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

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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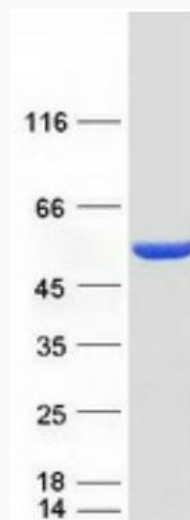
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Protein Refseq NP_002622.2

MIM 172200

UniProt ID P52209



Coomassie blue staining of purified PGD protein.

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