

Phosphogluconate Dehydrogenase Recombinant Protein | PGD recombinant protein

Recombinant Human Phosphogluconate Dehydrogenase

CATALOG # AAA38814	HOST E Coli
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PRODUCT SYNONYMS

Phosphogluconate Dehydrogenase; Recombinant Human Phosphogluconate Dehydrogenase; PGD Human; Phosphogluconate Dehydrogenase Human Recombinant; EC 1.1.1.44; 6PGD; PGDH; 6-phosphogluconate dehydrogenase decarboxylating; PGD; PGD recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Form/Format	The PGD solution contains 20mM Tris-HCl pH-8, 1mM DTT, 0.1M NaCl and 10% glycerol. Sterile Filtered clear colorless solution.
Concentration	25ug/25ul (varies by lot)
Sequence	MGSSHHH HHHSSGLVPR GSHMAQ ADIALIGLAV MGQNLILNMN DHGFVVCAFN RTVSKVDDFL ANEAKGTKVV GAQSLKEMVS KLKKPRRIIL LVKAGQAVDD FIEKLVPLLD TGDIIIDGGN SEYRDTTRRC RDLKAKGILF VSGVSGGEE GARYGPSLMP GGNKEAWPHI KTIFQGIAAK VGTGEPCCDW VGDEGAGHFV KMVHNGIEYG DMQLICEAYH LMKDVLGMAQ DEMAQAFEDW NKTELDSFLI EITANILKFQ DTDGKHLLPK IRDSAGQKGT GKWTAISALE YGVPVTLIGE AVFARCLSSL KDERIQASKK LKGPQKFQFD GDKKSFLEDI RKALYASKII SYAQGFMLLR QAATEFGWTL NYGGIALMWR GGCIIRSVFL GKIKDAFDRN PELQNLLDD FFKSAVENCQ DSWRRRAVSTG VQAGIPMPCF TTALSFYDGY RHEMLPASLI QAQRDYFGAH TYELLAKPGQ FIHTNWTGHG GTVSSSSYNA
Sequence Length	483
Preparation and Storage	PGD Recombinant Human although stable at 4 degree C for 30 days, should be stored desiccated below -20 degree C for periods greater than 30 days. Please avoid freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for PGD recombinant protein	Description: PGD Human Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 503 amino acids (1-483 a.a.) and having a molecular mass of 55.3 kDa. The PGD is fused to a 20 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques. Introduction: 6PGD is the second dehydrogenase in the pentose phosphate shunt. Pentose is necessary for nucleic acid biosynthesis. The pentose phosphate cycle is a major source of NADPH 6PGD deficiency is usually asymptomatic, and the inheritance of this disorder is autosomal dominant. PGD deficiency raises the erythrocyte pyruvate kinase levels of activity and decreases glutathione synthetase, resulting in hemolysis.
Product Categories/Family for PGD recombinant protein	Enzymes; Dehydrogenase

NCBI AND UNIPROT INFORMATION

NCBI GI #	40068518
NCBI GeneID	5226
NCBI Accession #	NP_002622.2

NCBI GenBank Nucleotide #	NM_002631.3
UniProt Accession #	P52209 ; Q9BWD8 ; A8K2Y9 ; B4DQJ8
Molecular Weight	51,872 Da
NCBI Official Full Name	6-phosphogluconate dehydrogenase, decarboxylating isoform 1
NCBI Official Synonym Full Names	phosphogluconate dehydrogenase
NCBI Official Symbol	PGD
NCBI Official Synonym Symbols	6PGD
NCBI Protein Information	6-phosphogluconate dehydrogenase, decarboxylating
UniProt Protein Name	6-phosphogluconate dehydrogenase, decarboxylating
UniProt Gene Name	PGD
UniProt Synonym Gene Names	PGDH
UniProt Entry Name	6PGD_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/pgd-recombinant-protein-e-coli/38814>