

32-2662: PGD Recombinant Protein

Alternative Name : EC 1.1.1.44,6PGD,PGDH,6-phosphogluconate dehydrogenase decarboxylating,PGD.

Description

Source : Escherichia Coli. 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. 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 Info

Amount :	25 µg
Purification :	Greater than 95% as determined by SDS-PAGE.
Content :	The PGD solution contains 20mM Tris-HCl pH-8, 1mM DTT, 0.1M NaCl and 10% glycerol.
Storage condition :	PGD Recombinant Human although stable at 4°C for 30 days, should be stored desiccated below -20°C for periods greater than 30 days. Please avoid freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MAQADIALIG LAVMGQNLIL NMNDHGFVVC AFNRTVSKVD DFLANEAKGT KVVGAQSLKE MVSKLKKPRR IILLVKAGQA VDDFIEKLVLP LLDTGDIID GGNSEYRDTT RRCRDLKAKG ILFVGSGVSG GEEGARYGPS LMPGGNKEAW PHIKTIFQGI AAKVGTEGPC CDWVGDEGAG HFVKMVHNGI EYGDMQLICE AYHLMKDVLG MAQDEMAQAF EDWNKTELD SFLIEITANIL KFQD TDGKHL LPKIRDSAGQ KGTGKWTAIS ALEYGVPVTL IGEAVFARCL SSLKDERIQA SKKLKGPQKF QFDGDKKSFL EDIRKALYAS KIISYAQGF M LLRQAATEFG WTLNYGGIAL MWRGGCIIRS VFLGKIKDAF DRNPELQNL LDDFFKSAVE NCQDSWRRRAV STGVQAGIPM PCFTTALS FY DGYRHEMLPA SLIQAQRDYF GAHTYELLA K PGQFIHTNWT GHGGTVSSSS YNA.

