

Product datasheet for **AR51993PU-S**

PGD / PGDH (1-483, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	PGD / PGDH (1-483, His-tag) human protein, 20 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MAQADIALIG LAVMGQNLIL NMNDHGFVVC AFNRTVSKVD DFLANEAKGT KVVGAQSLKE MVSKLKKPRR IILLVKAGQA VDDFIEKLVP LLDTGDIID GGNSEYRDTT RRCRDLKAKG ILFVGSGVSG GEEGARYGPS LMPGGNKEAW PHIKTIFQGI AAKVGTGPEC CDWVGDEGAG HFVKMVHNGI EYGDMQLICE AYHLMKDVLG MAQDEMAQAF EDWNKTELDS FLIEITANIL KFQD TDGKHL LPKIRDSAGQ KGTGKWTAS ALEYGVPVTL IGEAVFARCL SSLKDERIQA SKKLGKPKF QFDGDKKSF EDIRKALYAS KIISYAQGM LLRQAATEFG WTLNYGGIAL MWRGGCIIRS VFLGKIKDAF DRNPELQNL LDDFFKSAVE NCQDSWRRV STGVQAGIPM PCFTTALSFY DGYRHEMLPA SLIQAQRDYF GAHTYELLA PGQFIHTNWT GHGGTVSSSS YNA
Tag:	His-tag
Predicted MW:	55.3 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 0.1M NaCl, 10% glycerol
Bioactivity:	Specific: Specific activity is > 10 units/mg, in which one unit oxidize 1.0 umole of 6-phospho-D-gluconate to D-ribulose 5-phosphate per minute at pH 8.0 at 25C, in the presence of β-NADP.
Preparation:	Liquid purified protein
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001291380
Locus ID:	5226
UniProt ID:	P52209 , B4E2U0



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Cytogenetics: 1p36.22

Synonyms: 6PGD

Summary: 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. [provided by RefSeq, Jan 2015]

Protein Pathways: Glutathione metabolism, Metabolic pathways, Pentose phosphate pathway

Product images:

