

Recombinant Human PGM1 protein, His-tagged

Cat. No. PGM1-41H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PGM1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	PGM1 also known as Phosphoglucomutase-1 isoform 1. PGM1 belongs to the phosphohexose mutase family. There are several PGM isozymes, which are catalyze the transfer of phosphate between the 1 and 6 positions of glucose. In most cell types, PGM1 isozymes predominate, representing about 90% of total PGM activity. Defects in PGM1 are the cause of glycogen storage disease type 14.
Form	Liquid. In Phosphate Buffered Saline(pH 7.4) containing 10% glycerol
Molecular Mass	63.8 kDa (585aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMVKIVTV KTQAYQDQKP GTSGLRKRVK VFQSSANYAE NFIQSIISTV EPAQRQEATL VVGGDGRFYM KEAIQLIARI AAANGIGRLV IGQNGILSTP AVSCIIRKIK AIGGIILTAS HNPGGPNGDF GIKFNISNGG PAPEAITDKI FQISKTIIEY AVCPDLKVDL GVLGKQQFDL ENKFKPFTVE IVDSVEAYAT MLRSIFDFSA LKELLSGPNR LKIRIDAMHG VVGPHYVKIL CEELGAPANS AVNCVPLEDF GGHPDPNLT YAADLVETMK SGEHDFGA AF DGDGDRNMIL GKHGFFVNPS DSVAVIAANI FSIPYFQQTG VRGFARSMPT SGALDRVASA TKIALYETPT GWKFFGNLMD ASKLSLCGEE

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SFGTGSDHIR EKDGLWAVLA WLSILATRKQ SVEDILKDHV QKYGRNFFTR
 YDYEEVEAEG ANKMMKDLEA LMFDRSFVGK QFSANDKVYT VEKADNFEYS
 DPVDGSISRN QGLRLIFTDG SRIVFRLSGT GSAGATIRLY IDSYEKDVAK
 INQDPQVMLA PLISIALKVS QLQERTGRTA PTVIT

Purity >95% by SDS - PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name PGM1 phosphoglucomutase 1 [Homo sapiens]

Official Symbol PGM1

Synonyms PGM1; phosphoglucomutase 1; phosphoglucomutase-1; PGM 1; glucose phosphomutase 1; GSD14;

Gene ID 5236

mRNA Refseq NM_001172818

Protein Refseq NP_001166289

MIM 171900

UniProt ID P36871

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Chromosome Location	1p22.1
Pathway	Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; GDP-glucose biosynthesis, organism-specific biosystem; GDP-glucose biosynthesis, conserved biosystem; Galactose metabolism, organism-specific biosystem; Galactose metabolism, conserved biosystem; Glucose metabolism, organism-specific biosystem;
Function	isomerase activity; magnesium ion binding; phosphoglucomutase activity;

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