

Recombinant Human PGM1 protein, MYC/DDK-tagged

Cat. No. PGM1-2920H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PGM1 fused with MYC/DDK tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is an isozyme of phosphoglucosyltransferase (PGM) and belongs to the phosphohexose mutase family. There are several PGM isozymes, which are encoded by different genes and catalyze the transfer of phosphate between the 1 and 6 positions of glucose. In most cell types, this PGM isozyme is predominant, representing about 90% of total PGM activity. In red cells, PGM2 is a major isozyme. This gene is highly polymorphic. Mutations in this gene cause glycogen storage disease type 14. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	61.3 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

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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_002633
Protein Refseq	NP_002624
MIM	171900
UniProt ID	P36871
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;