

Recombinant Human PGM1

Cat. No. PGM1-30003TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PGM1 with a N terminal proprietary tag: predicted molecular weight 87.93 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	562 amino acids
Description	The protein encoded by this gene is an isozyme of phosphoglucomutase (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.
Molecular Weight	87.930kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MVKIVTVKTQAYQDQKPGTSGLRKRVKVFQSSANYAENFI QSIISTVEPAQRQEATL VVGGDGRFYMKEAIQLIARIAAA NGIGRLVIGQNGILSTPAVSCIIRKKAIGGIILTASH NP GGPNGDFGIKFNISNGGPAPEAITDKIFQISKTIIEYAVC PDLKVDLGVLGKQQFD LENKFKPFTVEIVDSVEAYATMLR SIFDFSALKELLSGPNRLKIRIDAMHGVVGPYVK KILCEE LGAPANSANVCVPLEDFGGHHPDPNLTYAADLVETMKS GE HDFGA AFDG DGDRNMILGKHGFFVNPDSVAVIAANIFSI PYFQQTGVRGFARSMPTSGALDRVAS ATKIALYETPTGWK FFGNLMDASKLSLCGEESFGTGS DHIREKDGLWAVLAWLS IL ATRKQSVEDILKDHQKYGRNFFTRYDYEEVEAEGANK MMKDLEALMFDRSFVGK QFSANDKVYTVEKADNFEYSDPV DGSISRNQGLRLIFTDGS RIVFRLSGTGSAGATI RLYIDS YEKDVAKINQDPQVMLAPLISIALKVSQ LQERTGRTAPT V IT
Sequence Similarities	Belongs to the phosphohexose mutase family.
GENE INFORMATION	
Gene Name	PGM1 phosphoglucomutase 1 [Homo sapiens]
Official Symbol	PGM1
Synonyms	PGM1; phosphoglucomutase 1; phosphoglucomutase-1;
Gene ID	5236
mRNA Refseq	NM_001172819
Protein Refseq	NP_001166290

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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, conserved biosystem; Galactose metabolism, organism-specific biosystem; Galactose metabolism, conserved biosystem;
Function	isomerase activity; magnesium ion binding; phosphoglucomutase activity;

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