

Recombinant Full Length Human PGM1 Protein

Cat. No. PGM1-370HF **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	In Vitro Cell Free System
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. Alternativley spliced transcript variants encoding different isoforms have been identified in this gene.
Form	Liquid
Molecular Mass	87.930kDa inclusive of tags
AA Sequence	MVKIVTVKTQAYQDQKPGTSGLRKRVKVFQSSANYAENFI QSIISTVEPAQRQEATL VVGGDGRFYMKEAIQLIARIAAA NGIGRLVIGQNGILSTPAVSCIIRKIKAIIGGIILTASH NP GGPNGDFGIKFNISNGGPAPEAITDKIFQISKTIIEYAVC PDLKVDLGVLGKQQFD

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LENKFKPFTVEIVDSVEAYATMLR SIFDFSALKELLSGPNRLKIRIDAMHGTVGPYVK
 KILCEE LGAPANSVNCVPLEDFGGHHPDPNLTYAADLVETMKSGE HDFGAAFDG
 DGDRNMILGKHGFFVNPSDSVAVIAANIFSI PYFQQTGVRGFARSMPTSGALDRVAS
 ATKIALYETPTGWK FFGNLMDASKLSLCGEESFGTGS DHIREK DGLWAVLAWLS IL
 ATRKQSVEDILKDHQKYGRNFFTRYDYEEVEAEGANK MMKDLEALMFDRSFVGK
 QFSANDKVYTVEKADNFEYSDPV DGSISRNQGLRLIFTDGS RIVFRLSGTGSAGATI
 RLYIDS YEKDVAKINQDPQVMLAPLISIALKVSQQLQERTGRTAPT V IT

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.

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

MIM 171900

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