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 NGIGRLVIGQNGILSTPAVSCIIRKIKAIGGIILTASH NP GGPNGDFGIKFNISNGGPAPEAITDKIFQISKTIEEYAVC PDLKVDLGVLGKQQFD

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

	LENKFKPFTVEIVDSVEAYATMLR SIFDFSALKELLSGPNRLKIRIDAMHGVVGPYVK KILCEE LGAPANSAVNCVPLEDFGGHHPDPNLTYAADLVETMKSGE HDFGAAFDG DGDRNMILGKHGFFVNPSDSVAVIAANIFSI PYFQQTGVRGFARSMPTSGALDRVAS ATKIALYETPTGWK FFGNLMDASKLSLCGEESFGTGSDHIREKDGLWAVLAWLS IL ATRKQSVEDILKDHWQKYGRNFFTRYDYEEVEAEGANK MMKDLEALMFDRSFVGK QFSANDKVYTVEKADNFEYSDPV DGSISRNQGLRLIFTDGSRIVFRLSGTGSAGATI RLYIDS YEKDVAKINQDPQVMLAPLISIALKVSQLQERTGRTAPTV 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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UniProt ID	P36871

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