

Recombinant Human PGM1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PGM1-6579H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PGM1 MS Standard C13 and N15-labeled recombinant protein (NP_002624) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	61.3 kDa
AA Sequence	MVKIVTVKTQAYQDQKPGTSGLRKRVKVFQSSANYAENFIQSIISTVEPAQRQEATLV VGGDGRFYMKIAIQLIARIAAANGIGRLVIGQNGILSTPAVSCIIRKIKAIIGGIILTASHNP GGPNGDFGIKFNISNGGPAPEAITDKIFQISKTIIEYAVCPDLKVDLGLVGLGKQQFDLEN KFKPFTVEIVDSVEAYATMLRSIFDFSALKELLSGPNRLKIRIDAMHGVVGPYVKKILC EELGAPANSAVNCVPLEDFGGHHPDPNLTYAADLVETMKSGEHDFGAAFDGDGDR

 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

NMILGKHGFFVNPSDSVAVIAANIFSIPYFQQTGVRGFARSMPTSGALDRVASATKIA
 LYETPTGWKFFGNLMDASKLSLCGEESFGTGSDHIREKDGLWAVLAWLSILATRKQ
 SVEDILKDHQKYGRNFFTRYDYEEVEAEGANKMMKDLEALMFDRSFVGKQFSAN
 DKVYTVEKADNFEYSDPVDGSISRNLQGLRLIFTDGSRIVFRLSGTGSAGATIRLYIDS
 YEKDVAKINQDPQVMLAPLISIALKVSQQLQERTGRTAPTIVITRTRPLEQKLISEEDLA
 ANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PGM1 phosphoglucomutase 1 [Homo sapiens (human)]

Official Symbol PGM1

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

Gene ID 5236

mRNA Refseq NM_002633

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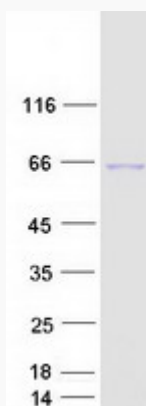
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Protein Refseq NP_002624

MIM 171900

UniProt ID P36871

SDS-PAGE



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