

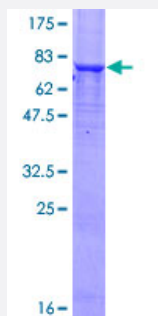
Full-Length

## PGM5 (Human) Recombinant Protein (P01)

Catalog # H00005239-P01

Size 25 ug, 10 ug

### Applications



### Specification

#### Product Description

Human PGM5 full-length ORF ( ENSP00000366540, 1 a.a. - 506 a.a.) recombinant protein with GST-tag at N-terminal.

#### Sequence

MVVGSDGRYFSRTAIEIVQMAAANGIGRLIIGQNGILSTPAVSCIIRKIIKAAGGIILTASHCPGGPGGE  
FGVKFNVANGGPAPDVVSDKIYQISKTEIEYAICPDLRIDLSRLGRQEFDLNKFKPFRVEIDPVDI  
YLNLLRTIFDFHAIKGLLTGPSQLKIRIDAMHGVMGPYVRKVLCDLGAANSAINCVPLEDFGGQH  
PDPNLTYATTLLLEAMKGGEYGFGAADFADGDRYMILGQNGFFVSPDSLAIIAANLSCIPYFRQMG  
VRGFGRSMPTSMALDRVAKSMKVPVYETPAGWRFFSNLMDSGRCNLCGEESFGTGSDHLREK  
DGLWAVLVWLSIAARKQSVEEMRDHWAKFGRHYCRFDYEGLDPKTTYIMRDLEALVTDKSFIG  
QQFAVGSHVYSVAKTDSFEYVDPVDGTVTKKQGLRIIFSDASRLIFRLSSSSGVRATLRLYAESYE  
RDPSGHDQEPQAVLSPLIALKISQIHERTGRRGPTVIT

#### Host

Wheat Germ (in vitro)

#### Theoretical MW (kDa)

82

#### Interspecies Antigen Sequence

Mouse (97); Rat (98)

#### Preparation Method

[in vitro wheat germ expression system](#)

#### Purification

Glutathione Sepharose 4 Fast Flow

#### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

|                     |                                                                          |
|---------------------|--------------------------------------------------------------------------|
| Storage Buffer      | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |
| Storage Instruction | Store at -80°C. Aliquot to avoid repeated freezing and thawing.          |
| Note                | Best use within three months from the date of receipt of this protein.   |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — PGM5

|                     |                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">5239</a>                                                                                                                                                                                                                                                                                                                                                 |
| GeneBank Accession# | <a href="#">ENST00000377323</a>                                                                                                                                                                                                                                                                                                                                      |
| Protein Accession#  | <a href="#">ENSP00000366540</a>                                                                                                                                                                                                                                                                                                                                      |
| Gene Name           | PGM5                                                                                                                                                                                                                                                                                                                                                                 |
| Gene Alias          | PGMRP                                                                                                                                                                                                                                                                                                                                                                |
| Gene Description    | phosphoglucomutase 5                                                                                                                                                                                                                                                                                                                                                 |
| Omim ID             | <a href="#">600981</a>                                                                                                                                                                                                                                                                                                                                               |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                            |
| Gene Summary        | Phosphoglucomutases (EC 5.2.2.2.), such as PGM5, are phosphotransferases involved in interconversion of glucose-1-phosphate and glucose-6-phosphate. PGM activity is essential in formation of carbohydrates from glucose-6-phosphate and in formation of glucose-6-phosphate from galactose and glycogen (Edwards et al., 1995 [PubMed 8586438]).[supplied by OMIM] |
| Other Designations  | OTTHUMP00000021418 phosphoglucomutase-related protein                                                                                                                                                                                                                                                                                                                |

## Publication Reference

- [Local carotid atherosclerotic plaque proteins for the identification of circulating biomarkers in coronary patients.](#)

Malaud E, Merle D, Piquer D, Molina L, Salvétat N, Rubrecht L, Dupaty E, Galea P, Cobo S, Blanc A, Saussine M, Marty-Ane C, Albat B, Meilhac O, Rieunier F, Pouzet A, Molina F, Laune D, Fareh J.

Atherosclerosis 2014 Apr; 233(2):551.

Application: S-ELISA, Human, Plasma