

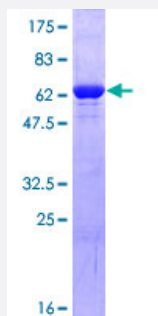
Full-Length

PGK1 (Human) Recombinant Protein (P01)

Catalog # H00005230-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PGK1 full-length ORF (NP_000282.1, 1 a.a. - 417 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MSLSNKLTDKLDVKGKRVVMRVDFNVPMKNNQITNNQRIKAAVPSIKFCLDNGAKSVVLMShLG
RPDGVPMPDKYSLEPVAVELKSLLGKDVFLKDCVGPEVEKACANPAAGSVILLENLRFHVEEE
GKGKDASGNKVKAEPKIEAFRASLSKLGDVYVNDAGTAHRAHSSMVGVNLPQKAGGFLMKK
ELNYFAKALESPPFLAILGGAKVADKIQLINNMLDKVNEMIIGGGMAFTFLKVLNNMEIGTSLFDE
EGAKIVKDLMSKAEKNGVKITLPVDFVTADKFDENAKTGQATVASGIPAGWMGLDCGPESKKY
AEA VTRAKQMWNGPVGVFWEAFARGTKALMDEVVKATSRGCITIGGGDTATCCAkwntEDK
VSHVSTGGGASLELLEGKVLPGVDALSNI

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

71

Interspecies Antigen Sequence

Mouse (98); Rat (97)

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 — PGK1

Entrez GeneID	5230
GeneBank Accession#	NM_000291.2
Protein Accession#	NP_000282.1
Gene Name	PGK1
Gene Alias	MGC117307, MGC142128, MGC8947, MIG10, PGKA
Gene Description	phosphoglycerate kinase 1
Omim ID	300653 311800
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a glycolytic enzyme that catalyzes the conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate. The encoded protein may also act as a cofactor for polymerase alpha. This gene lies on the X-chromosome, while a related pseudogene also has been found on the X-chromosome and another on chromosome 19. [provided by RefSeq]
Other Designations	OTTHUMP00000023595 cell migration-inducing gene 10 protein primer recognition protein 2

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Carbon fixation in photosynthetic organisms](#)
- [Glycolysis / Gluconeogenesis](#)
- [Metabolic pathways](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)