

PGK2 (Human) Recombinant Protein (Q01)

Catalog # H00005232-Q01 Size 25 ug, 10 ug

Applications



Specification	
Product Description	Human PGK2 partial ORF (NP_620061, 268 a.a 339 a.a.) recombinant protein with GST-tag at N- terminal.
Sequence	DIMAKAQKNGVRITFPVDFVTGDKFDENAQVGKATVASGISPGWMGLDCGPESNKNHAQVVAQ ARLIVWNGP
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	33.66
Interspecies Antigen Sequence	Mouse (78); Rat (81)
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-HCI, 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 — PGK2	
Entrez GenelD	5232
GeneBank Accession#	<u>NM_138733</u>
Protein Accession#	<u>NP_620061</u>
Gene Name	PGK2
Gene Alias	PGK-2, PGKB, PGKPS, dJ417L20.2
Gene Description	phosphoglycerate kinase 2
Omim ID	<u>172270</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	The PGK2 gene encodes a testis-specific form of phosphoglycerate kinase (EC 2.7.2.3), which c atalyzes the reversible conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate during glycol ysis, generating one molecule of ATP. See also PGK1 (MIM 311800), which is ubiquitously expre ssed in all somatic tissues and maps to chromosome Xq13.[supplied by OMIM
Other Designations	OTTHUMP00000016591 phosphoglycerate kinase 1, pseudogene 2 phosphoglycerate kinase au tosomal pseudogene

Pathway

- Biosynthesis of alkaloids derived from histidine and purine
- Biosynthesis of alkaloids derived from ornithine
- Biosynthesis of alkaloids derived from shikimate pathway

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- 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
- <u>Glycolysis / Gluconeogenesis</u>
- <u>Metabolic pathways</u>