

Bioactive

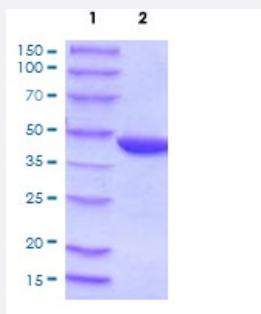
Full-Length

PGK2 (Human) Recombinant Protein

Catalog # P7969

Size 20 ug

Applications



Specification

Product Description

Human PGK2 (P07205, 1 a.a. - 417 a.a.) full length recombinant protein with His tag expressed in *Escherichia coli*.

Sequence

MSLSKKLTLDKLDVRGKRVIMRVDFNVPKKNQITNNQRIKASIPSIKYCLDNGAKAVVLMShLGR
PDGVPMPPDKYSLAPVAVELKSLLGKDVLFLKDCVGAEVEKACANPAPGSVILLENLRFHVEEEG
KGQDPGKKIKAEPDKIEAFRASLSKLGDVYVNDAGTAHRAHSSMVGVNLPHKASGFLMKKEL
DYFAKALENPVRPFLAILGGAKVADKIQLIKMLDKVNEMIIGGGMAYTFLKVLNNMEIGASLFDEE
GAKIVKDIMAKAQKNGVRITFPVDFVTGDKFDENAQVGKATVASGISPGWMGLDCGPESNKNHA
QVVAQARLWNGPLGVFEWDAFAKGTALMDEIVKATSKGCITVIGGGDTATCCAkwntEDKV
SHVSTGGGASLELLEGGKILPGVEALSnm

Host

Escherichia coli

Theoretical MW (kDa)

46.9

Form

Liquid

Preparation Method

Escherichia coli expression system

Purity

> 95% by SDS-PAGE

Activity

Specific activity is > 500 unit/mg, in which one unit will convert 1 umole of 1,3-Bisphosphoglycerate to 3-PGA per minute at pH 8.0 at 37°C.

Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.
Storage Buffer	In 20mM Tris-HCl pH 8.0 (20% glycerol, 0.1 M NaCl, 1 mM DTT)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — PGK2

Entrez GeneID	5232
Protein Accession#	P07205
Gene Name	PGK2
Gene Alias	PGK-2, PGKB, PGKPS, dJ417L20.2
Gene Description	phosphoglycerate kinase 2
Omim ID	172270
Gene Ontology	Hyperlink
Gene Summary	The PGK2 gene encodes a testis-specific form of phosphoglycerate kinase (EC 2.7.2.3), which catalyzes the reversible conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate during glycolysis, generating one molecule of ATP. See also PGK1 (MIM 311800), which is ubiquitously expressed in all somatic tissues and maps to chromosome Xq13.[supplied by OMIM]
Other Designations	OTTHUMP00000016591 phosphoglycerate kinase 1, pseudogene 2 phosphoglycerate kinase autosomal pseudogene

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](#)