

## Product datasheet for **TP311172**

### **PGK1 (NM\_000291) Human Recombinant Protein**

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human phosphoglycerate kinase 1 (PGK1), 20 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC211172 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MSLSNKLTLDKLDVKGKRVVMRVDFNVPMKNNQITNNQRIKAAVPSIKFCLDNGAKSVVLMShLGRPDGV  
PMPDKYSLEPVAVELKSLGKDVFLKDCVGPEVEKACANPAAGSVILLENLRFHVEEEGKGKDASGNKV  
KAEPKIEAFRASLSKLGDVYVNDAGTAHRAHSSMVGVNLPQKAGGFLMKKELNYFAKALESERPFLA  
ILGGAKVADKIQLINNMLDKVNEMIIGGMAFTFLKVLNNMEIGTSLFDEEGAKIVKDLMSKAEKNGVKI  
TLPVDFVTADKFDENAKTGQATVASGIPAGWMGLDCGPESKKYAEAVTRAKQIVWNGPVGVFWEAFAR  
GTKALMDEVVKATSRGCITIIGGGDTATCCAKWNTEDKVSHVSTGGGASLELLEGKVLPGVDALSNI

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 44.4 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

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

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_000282](#)

**Locus ID:** 5230



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UniProt ID:	<a href="#">P00558</a>
RefSeq Size:	2439
Cytogenetics:	Xq21.1
RefSeq ORF:	1251
Synonyms:	HEL-S-68p; MIG10; PGKA
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. Additionally, this protein is secreted by tumor cells where it participates in angiogenesis by functioning to reduce disulfide bonds in the serine protease, plasmin, which consequently leads to the release of the tumor blood vessel inhibitor angiostatin. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Deficiency of the enzyme is associated with a wide range of clinical phenotypes hemolytic anemia and neurological impairment. Pseudogenes of this gene have been defined on chromosomes 19, 21 and the X chromosome. [provided by RefSeq, Jan 2014]
Protein Families:	Druggable Genome
Protein Pathways:	Glycolysis / Gluconeogenesis, Metabolic pathways

### Product images:



Coomassie blue staining of purified PGK1 protein (Cat# TP311172). The protein was produced from HEK293T cells transfected with PGK1 cDNA clone (Cat# [RC211172]) using MegaTran 2.0 (Cat# [TT210002]).