

Product datasheet for **TP721237M**

PGK1 (NM_000291) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human phosphoglycerate kinase 1 (PGK1)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	Ser2-Ile417
Tag:	C-His
Predicted MW:	45.5 kDa
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Provided lyophilized from a 0.2 μ m filtered solution of 20 mM Tris-HCl, 150 mM NaCl
Endotoxin:	Endotoxin level is < 0.1 ng/ μ g of protein (< 1 EU/ μ g)
Storage:	Store at -80°C.
Stability:	Stable for at least 3 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_000282
Locus ID:	5230
UniProt ID:	P00558 , V9HWF4
RefSeq Size:	2439
Cytogenetics:	Xq21.1
RefSeq ORF:	1251
Synonyms:	HEL-S-68p; MIG10; PGKA



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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