

Recombinant Full Length Human PGK1 Protein, C-Flag-tagged

Cat. No. PGK1-1824HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PGK1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	44.4 kDa
AA Sequence	MSLSNKLTLDKLDVKGKRVVMRVDFNVPMKNNQITNNQRIKAAVPSIKFCLDNGAKS VVLMSHLGRPDGV PMPDKYSLEPVAVELKSLLGKDVFLKDCVGPEVEKACANPAA GSVILLENLRFHVEEEGKGKDASGNKV KAEPKIEAFRASLSKLGDVYVNDADFSTA

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RAHSSMVGVNLPQKAGGFLMKKELNYFAKALESPERPFLA ILGGAKVADKIQLINNM
 LDKVNEMIIGGGMAFTFLKVLNNMEIGTSLFDEEGAKIVKDLMSKAENGVKI TLPVD
 FVTADKFDENAKTGQATVASGIPAGWMGLDCGPESKKYAEAVTRAKQIVWNGPV
 GVFEWEAFAR GTKALMDEVVKATSRGCITIIGGGDTATCCAKWNTEDKVSHVSTGG
 GASLELLEGKVLPGVDALSNI TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Glycolysis / Gluconeogenesis, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

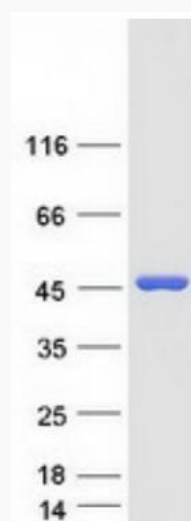
Gene Name	PGK1 phosphoglycerate kinase 1 [Homo sapiens (human)]
Official Symbol	PGK1
Synonyms	PGKA; MIG10; HEL-S-68p

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Gene ID	5230
mRNA Refseq	NM_000291.4
Protein Refseq	NP_000282.1
MIM	311800
UniProt ID	P00558



Coomassie blue staining of purified PGK1 protein.