

# Recombinant Human PGK1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** PGK1-4855H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	PGK1 MS Standard C13 and N15-labeled recombinant protein (NP_000282) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	<p>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.</p>
<b>Molecular Mass</b>	44.6 kDa
<b>AA Sequence</b>	MSLSNKLTLDKLDVKGKRVVMRVDNFVPMKNNQITNNQRIKAAVPSIKFCLDNGAKS VVLMSHLGRPDGVPMPDKYSLEPVAVELKSLGKDVFLKDCVGPVEVEKACANPAA GSVILLENLRFHVEEEGKGKDASGNKVKAEPAKIEAFRASLSKLGDVYVNDAFGTAH

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RAHSSMVGVNLPQKAGGFLMKKELNYFAKALESPERPFLAILGGAKVADKIQLINNM  
 LDKVNEMIIGGGMAFTFLKVLNNMEIGTSLFDEEGAKIVKDLMSKAENGVKITLPVD  
 FVTADKFDENAKTGQATVASGIPAGWMGLDCGPESKKYAEAVTRAKQIVWNGPV  
 GVFEWEAFARGTKALMDEVVKATSRGCITIIGGGDTATCCAKWNTEDKVSHVSTGG  
 GASLELLEGGKVLPGVDALSNITRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** [PGK1 phosphoglycerate kinase 1 \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [PGK1](#)

**Synonyms** PGK1; phosphoglycerate kinase 1; PRP 2; primer recognition protein 2; cell migration-inducing gene 10 protein; PGKA; MIG10; MGC8947; MGC117307; MGC142128;

**Gene ID** [5230](#)

**mRNA Refseq** [NM\\_000291](#)

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**Protein Refseq**      NP\_000282

**MIM**                    311800

**UniProt ID**            P00558

**SDS-PAGE**



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