

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

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

SPECIFICATION

Product Overview	PGK1 MS Standard C13 and N15-labeled recombinant protein (NP_000282) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	44.6 kDa
AA Sequence	MSLSNKLTLDKLDVKGKRVVMRVDFNVPMKNNQITNNQRIKAAVPSIKFCLDNGAKS VVLMSHLGRPDGVPMPDKYSLEPVAVELKSLLGKDVFLKDCVGPVEVEKACANPAA GSVILLENLRFHVEEEGKGKDASGNKVKAEPKIEAFRASLSKLGDVYVNDAFGTAH

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RAHSSMVGVNLPQKAGGFLMKKELNYFAKALESERPFLAILGGAKVADKIQLINNM
 LDKVNEMIIGGGMAFTFLKVLNNMEIGTSLFDEEGAKIVKDLMSKAENGVKITLPVD
 FVTADKFDENAKTGQATVASGIPAGWMGLDCGPESKKYAEAVTRAKQIVWNGPV
 GVFEWEAFARGTKALMDEVVKATSRGCITIIGGGDTATCCAKWNTEDKVSHVSTGG
 GASLELLEGKVLPGVDALS NITRTRPLEQKLISEEDLAANDILDYKDDDDKV

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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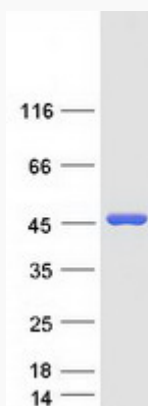
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Protein Refseq NP_000282

MIM 311800

UniProt ID P00558

SDS-PAGE



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