

Recombinant Human PGK1 Protein, MYC/DDK-tagged

Cat. No. PGK1-1310H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human PGK1 protein, fused to MYC/DDK tag at C-terminus, was expressed in HEK293.

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. [provided by RefSeq, Jan 2014].

Form 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.

Molecular Mass 44.4 kDa

Purity >50 ug/mL as determined by microplate BCA method

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Concentration >50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name PGK1 phosphoglycerate kinase 1 [Homo sapiens]

Official Symbol PGK1

Synonyms HEL-S-68p; MIG10; PGKA

Gene ID 5230

mRNA Refseq NM_000291

Protein Refseq NP_000282

MIM 311800

UniProt ID P00558

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