Recombinant Human PGK2

Cat. No. PGK2-30580TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human PGK2 with an N terminal proprietary tag; Predicted MW 33.55kDa.
Species	Human
Source	Wheat Germ
ProteinLength	72 amino acids
Description	This gene is intronless, arose via retrotransposition of the phosphoglycerate kinase 1 gene, and is expressed specifically in the testis. Initially assumed to be a pseudogene, the encoded protein is actually a functional phosphoglycerate kinase that catalyzes the reversible conversion of 1,3-bisphosphoglycerate to 3-phosphoglycerate, during the Embden-Meyerhof-Parnas pathway of glycolysis, in the later stages of spermatogenesis.
Molecular Weight	33.550kDa inclusive of tags
Tissue specificity	Testis specific.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	DIMAKAQKNGVRITFPVDFVTGDKFDENAQVGKATVASGISPGWMGLDCGPESNKN HAQVVAQARLIVWNGP
Sequence Similarities	Belongs to the phosphoglycerate kinase family.

GENE INFORMATION

Gene Name	PGK2 phosphoglycerate kinase 2 [Homo sapiens]
Official Symbol	PGK2
Synonyms	PGK2; phosphoglycerate kinase 2; PGK 2; PGKPS;
Gene ID	5232
mRNA Refseq	NM_138733
Protein Refseq	NP_620061
MIM	172270
Uniprot ID	P07205
Chromosome Location	6p21-q12
Pathway	Gluconeogenesis, oxaloacetate => fructose-6P, organism-specific biosystem; Gluconeogenesis, oxaloacetate => fructose-6P, conserved biosystem; Glycolysis

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	(Embden-Meyerhof pathway), glucose =>
Function	ATP binding; nucleotide binding; phosphoglycerate kinase activity; phosphoglycerate kinase activity; transferase activity;

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