

Product datasheet for PH311172

PGK1 (NM_000291) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PGK1 MS Standard C13 and N15-labeled recombinant protein (NP_000282)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211172
Predicted MW:	44.6 kDa
Protein Sequence:	>RC211172 protein sequence Red=Cloning site Green=Tags(s)

MSLSNKLTLDKLDVKGKRVVMRVDNFNPKNNQITNNQRIKAAVPSIKFCLDNGAKSVVLMSHLGRPDGV
PMPDKYSLEPVAVELKSLGKDVLFKDCVGPVEKACANPAAGSVILLENLRFHVVEEGKGDASGNKV
KAEPAKIEAFRASLSKLGDVYVNDVAFGTAHRAHSSMVGVNLPQKAGGFLMKKELNYFAKALESPERPFLA
ILGGAKVADKIQLINNMLDKVNEMIIGGGMAFTFLKVLNMEIGTSLFDEEGAKIVKDLMSKAEKNGVKI
TLPVDFVTADKFDENAKTGQATVASGIPAGWMGLDCGPESKKYAEAVTRAKQIVWNGPVGVEWEAFAR
GTKALMDEVVKATSRGCITIIIGGGDTATCCAkwntedkvshvstgggaslelllegkvlpgvdalsni

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000282
RefSeq Size:	2439
RefSeq ORF:	1251
Synonyms:	HEL-S-68p; MIG10; PGKA
Locus ID:	5230



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UniProt ID: [P00558](#), [V9HWF4](#)

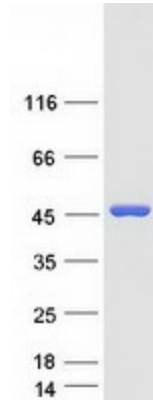
Cytogenetics: Xq21.1

Summary: 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]

Protein Families: Druggable Genome

Protein Pathways: Glycolysis / Gluconeogenesis, Metabolic pathways

Product images:



Coomassie blue staining of purified PGK1 protein (Cat# [TP311172]). The protein was produced from HEK293T cells transfected with PGK1 cDNA clone (Cat# [RC211172]) using MegaTran 2.0 (Cat# [TT210002]).