

PGK1, 1-417aa, Human, His tag, E.coli (Bioactivity Validated)

Cat.NO.: TP03379

3th Edition

Synonyms: Phosphoglycerate kinase 1, MGC117307, MGC142128, MGC8947, MIG10, PGKA.

Description: Phosphoglycerate kinase 1 (PGK1) is an X-linked enzyme that plays a key role in the glycolytic pathway. The gene encoding the erythrocyte enzyme PGK1 and it seems that PGK-1 acts as a polymerase alpha cofactor protein (primer recognition protein) as a glycolytic enzyme role. The PGK1 catalyzes the reversible conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate during glycolysis, generating one molecule of ATP. Recombinant PGK1 protein was expressed in E.coli and purified by using conventional chromatography techniques.

Form: Liquid. In 20 mM Tris (pH 8.0), containing 10% Glycerol, 1mM DTT.

Molecular Weight: 46.8 kDa (437aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMSLSNKLTLDKLDVKGKRVVMRVDNFNPMKNNQITNNQRIKAAVPSIKFCLDNGA
KSVVLMShLGRPDGVPMPDKYSLEPVAVELKSLGKDVLFKDCVGPEVEKACANPAAGSVILLENLRFHVEEEGK
GKDASGNKVKAEPAKIEAFRASLSKLGDVYVNDVAFGTAHRAHSSMVGVNLPQKAGGFLMKKELNYFAKALES
PFLAILGGAKVADKIQLINMLDKVNEMIIIGGGMAFTFLKVLNNMEIGTSLFDEEGAKIVKDLMSKAEKNGVKITLPVD
FVTADKFDENAKTGQATVASGIPAGWMGLDCGPESSKKYAEAVTRAKQIVWNGPVGVFWEAFARGTKALMDEV
VKATSRGCITIIGGGDTATCCAkwntedkvshvstgggaslelleGKVLPGVDALSNl

Purity: > 95% by HPLC

Concentration: 1 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.