

Pgk1,1-4170aa, Mouse, His tag, E.coli

Cat.NO.: TP03380

3th Edition

Synonyms: Phosphoglycerate kinase 1 , Pgk-1

Description: Pgk1 also known as Phosphoglycerate kinase 1 is an X-linked enzyme that plays a key role in the glycolytic pathway. Pgk1 acts as a polymerase alpha cofactor protein (primer recognition protein) as a glycolytic enzyme role. This protein catalyzes the reversible conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate during glycolysis, generating one molecule of ATP. Recombinant mouse Pgk1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form: Liquid, In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT

Molecular Weight: 47.1kDa (441aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSHMSLSNKLTLDKLDVKGKRVVMRVDNFNPMKNNQITNNQRIKAAVPSIKFCL
DNGAKSVVLMShLGRPDGVPMPDKYSLEPVAAELKSLGKDVLFKDCVGPEVENACANPAAGTVILLENLRFHVE
EEGKGKDASGNKVKAEPKIDAFRASLSKLGDVYVNDVAFGTAHRAHSSMVGVNLPQKAGGFLMKKELNYFAKALE
SPERPFLAILGGAKVADKIQLINMLDKVNEMIIGGGMAFTFLKVLNMEIGTSLYDEEGAKIVKDLMSKA EKNGVKIT
LPVDFVTADKFDENAKTGQATVASGIPAGWMGLDCGTESSKKYAEAVGRAKQIVWNGPVGVFWEAFARGTKSL
MDEVVKATSRGCITIIGGGDTATCCAkwntEDKvshVSTGGGASLELLEgKvLPGVDALSNV

Purity: > 95% by HPLC

Concentration: 1mg/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.