
PGK2, 1-417aa, Human, His tag, E.coli (Bioactivity Validated)

Cat.NO.: TP03382

3th Edition

Synonyms: Phosphoglycerate kinase 2, dJ417L20.2, PGKB, PGKPSS

Description: PGK2 is a testis-specific form of phosphoglycerate kinase. Initially assumed to be a pseudogene, this 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. Recombinant human PGK2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT, 0.1M NaCl

Molecular Weight: 46.9 kDa (437aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMSLSKKLTLDKLDVRGKRVIMRVDFNVPMKKNQITNNQRIKASIPSIKYCLDNGAK
AVVLMShLGRPDGVPMPDKYSLAPVAVELKSLGKDVLFKDCVGAEVEKACANPAPGSVILLENLRFHVEEEGKG
QDPSGKKIKAEPDKIEAFRASLSKLGDVYVNDAFGTAHRAHSSMVGVNLPHKASGFLMKKELDYFAKALENPVRPF
LAILGGAKVADKIQLIKNMLDKVNEMIIGGGMAYTFLKVLNNMEIGASLFDEEGAKIVKDIMAKAQKNGVRITFPVDFV
TGDKFDENAQVGKATVASGISPGWMGLDCGPESNKNHAQVVAQARLIVWNGPLGVFEWDAFAKGTKALMDEIVK
ATSKGCITVIGGGDTATCCAkwntEDKVSHVSTGGGASLELLEGGKILPGVEALSNM

Purity: > 95% by HPLC

Concentration: 0.5 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.