

32-6992: PGK1 Human, Active

Application : Functional Assay

Alternative Name : Phosphoglycerate kinase 1, MGC117307, MGC142128, MGC8947, MIG10, PGKA.

Description

Source: E.coli.

Sterile Filtered colorless solution.

Phosphoglycerate kinase 1, also referred to PGK1, is an X-linked enzyme which functions in the glycolytic pathway. The gene encoding the erythrocyte enzyme PGK1 & it seems that PGK-1 plays a role 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.

PGK1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 437 amino acids (1-417a.a.) and having a molecular mass of 46.8kDa. PGK1 is fused to a 20 amino acid His tag at N-Terminus and purified by proprietary chromatographic techniques.

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 95.0% as determined by SDS-PAGE.

Content : The PGK1 solution (1mg/ml) contains 10% glycerol, 20mM Tris-HCl buffer (pH 8.0) and 1mM DTT. .

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid : MGSSHHHHHH SSGLVPRGSH MSLSNKLTLD KLDVKGKRVV MRVDFNVPMK NNQITNNQRI
KAAVPSIKFC LDNGAKSVVL MSHLGRPDGV PMPDKYSLEP VAVELKSLG KDVFLKDCV GPEVEKACAN
PAAGSVILLE NLRFHVEEEG KGKDASGNKV KAEPKIEAF RASLSKLDV YVNDAFGTAH RAHSSMVGVN
LPQKAGGFLM KKELNYFAKA LESPFPFLA ILGGAKVADK IQLINMLDK VNEMIIGGGM AFTFLKVLNN
MEIGTSLFDE EGAKIVKDL M SKAEKNGVKI TLPVDFVTAD KFDENAKTGQ ATVASGIPAG WMGLDCGPES
SKKYAEAVTR AKQIVWNGPV GVFEWEAFAR GTKALMDEVV KATSRGCITI IGGGDTATCC AKWNTEDKVS
HVSTGGGASL ELLEGKVLPG VDALSNI

Application Note

Specific activity: > 600unit/mg. One unit will convert 1 umole of 1,3-Bisphosphoglycerate to 3-PGA per minute at pH 8.0 at 37C.