
Product Data Sheet

Product Name: PGK1 Human, Active

Cat. No.: GP26193

Batch No.: 1

Product Data

Purity >98%

Source E.coli.

Physical Appearance solid

Shipping Condition withIcePacks

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

Amino Acid Sequence

MGSSHHHHHH SGLVPRGSH MSLSNKLTLD KLDVKGKRVV MRVDFNVPMK
 NNQITNNQRI KAAVPSIKFC LDNGAKSVVL MSHLGRPDGV PMPDKYSLEP
 VAVELKSLLG KDVFLKDCV GPEVEKACAN PAAGSVILLE NLRFHVEEEG
 KGKDASGNKV KAEPKIEAF RASLSKLGDV YVNDAFGTAH RAHSSMVGVN
 LPQKAGGFLM KKELNYFAKA LESPERPFLA ILGGAKVADK IQLINNMLDK
 VNEMIIGGGM AFTFLKVLNN MEIGTSLFDE EGAKIVKDLM SKAEKNGVKI
 TLPVDFVTAD KFDENAKTGQ ATVASGIPAG WMGLDCGPES SKKYAEAVTR
 AKQIVWNGPV GVFEWEAFAR GTKALMDEVV KATSRGCITI IGGGDTATCC
 AKWNTEDKVS HVSTGGGASL ELLEGKVLPG VDALSNI

Formulation

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

Introduction

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.

Biological Activity

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

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.

Background

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

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