

Recombinant human PGK2 protein

Catalog Number: ATGP3287

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-417aa

UniProt No.

P07205

NCBI Accession No.

NP_620061

Alternative Names

Phosphoglycerate kinase 2, dj417L20.2, PGKB, PGKPSS

PRODUCT SPECIFICATION

Molecular Weight

46.9 kDa (437aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT, 0.1M NaCl

Purity

> 95% by SDS-PAGE

Biological Activity

Specific activity is > 500unit/mg. One unit will convert 1 umole of 1,3-Bisphosphoglycerate to 3-PGA per minute at pH 8.0 at 37C.

Tag

His-Tag

Application

Enzyme Activity, SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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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.

Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MSLSKKLTLD KLDVRGKRVI MRVDFNVPMK KNQITNNQRI KASIPSIKYC LDNGAKAVVL
MSHLGRPDGV PMPDKYSLAP VAVELKSLLG KDVLFKDCV GAEVEKACAN PAPGSVILLE NLRFHVEEEG KGQDPSGKKI
KAEPDKIEAF RASLSKLGDV YVNDAFGTAH RAHSSMVGVN LPHKASGFLM KKELDYFAKA LENPVRPFLA ILGGAKVADK
IQLIKNMLDK VNEMIIGGGM AYTLKVLNN MEIGASLFDE EGAKIVKDIM AKAQKNGVRI TFPVDFVTGD KFDENAQVGK
ATVASGISPG WMGLDCGPES NKNHAQVVAQ ARLIVWNGPL GVFEWDFAK GTKALMDEIV KATSKGCITV IGGGDTATCC
AKWNTEDKVS HVSTGGGASL ELLEGKILPG VEALSNM

General References

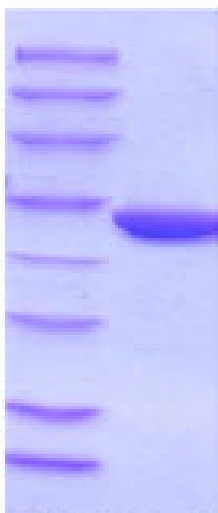
Svaasand EK. et al. (2007) Muscle Nerve. 36:679-84.
Valentin C. et al. (1998) Hum Mutat. 12(4):280-7.

DATA

SDS-PAGE

(kDa)

150
100
70
50
35
25
20
15



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)