Recombinant mouse PGK1 protein

Catalog Number: ATGP3072

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-417aa

UniProt No.
P09411

NCBI Accession No.
NP_032854

Alternative Names
Phosphoglycerate kinase 1, Pgk-1

PRODUCT SPECIFICATION

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

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT

Purity
> 90% by SDS-PAGE

Biological Activity
Specific activity: > 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
SDS-PAGE, Enzyme Activity

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
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 glyxolytic enzyme role. This protein catalyzes the reversible conversion of 1, 3-diphosphoglycerate to 3-phosphoglycerate during

Recombinant mouse PGK1 protein

Catalog Number: ATGP3072

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.

Amino acid Sequence

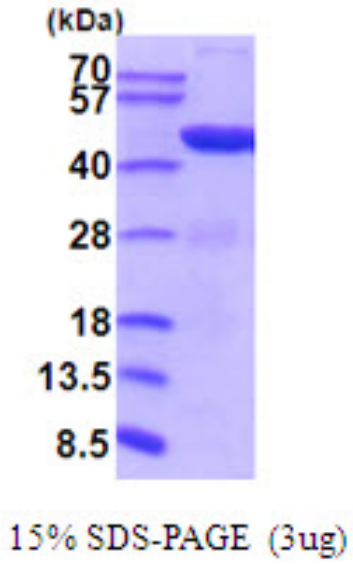
MGSSHHHHHH SSGLVPRGSH MGSHMSLSNK LTLDKLDVKG KRVVMRVDFN VPMKNNQITN NQRIKAAVPS IKFCLDNGAK SVVLMSHLGR PDGVPMPDKY SLEPVAAELK SLLGKDVLFL KDCVGPEVEN ACANPAAGTV ILLENLRFHV EEEGKGKDAS GNKVKAEPAK IDAFRASLSK LGDVYVNDAF GTAHRAHSSM VGVNLPQKAG GFLMKKELNY FAKALESPER PFLAILGGAK VADKIQLINN MLDKVNEMII GGGMAFTFLK VLNNMEIGTS LYDEEGAKIV KDLMSKAEKN GVKITLPVDF VTADKFDENA KTGQATVASG IPAGWMGLDC GTESSKKYAE AVGRAKQIVW NGPVGVFEWE AFARGTKSLM DEVVKATSRG CITIIGGGDT ATCCAKWNTE DKVSHVSTGG GASLELLEGK VLPGVDALSN V

General References

Chauvin T., et al. (2012) Biol. Reprod. 87 (6), 141

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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