

Recombinant e.coli glpK protein

Catalog Number: ATGP3062

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-502aa

UniProt No.

P0A6F3

NCBI Accession No.

NP_418361

Alternative Names

Glycerol kinase

PRODUCT SPECIFICATION

Molecular Weight

58.6 kDa (525aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

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

glpK also known as glycerol kinase, belongs to the FGGY kinase family. glpK function to catalyze the transfer of a phosphate group from ATP to glycerol, thereby forming glycerol phosphate. This intermediate can then be converted to dihydroxyacetone phosphate (DHAP), which is utilized in either glycolysis or gluconeogenesis. Recombinant E. coli glpK, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

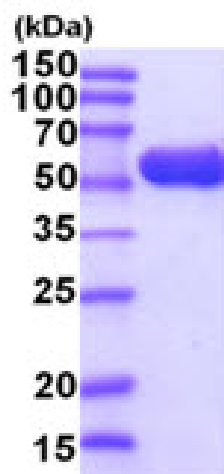
MGSSHHHHHH SSSLVPRGSH MGSMTTEKKYI VALDQGTSS RAVVMDHDAN IISVSQREFE QIYPKPGWVE HDPMEIWATQ
SSTLVEVLAK ADISSDQIAA IGITNQRETT IVWEKETGKP IYNAIVWQCR RTAEICEHLK RDGLEDYIRS NTGLVIDPYF
SGTKVKWILD HVEGSRERAR RGELFGTVD TWLIWKMTQG RVHVTDYTN SRTMLFNIHT LDWDDKMLEV LDIPREMLPE
VRRSSEVYQG TNIGGKGGTR IPISGIAGDQ QAALFGQLCV KEGMAKNTYG TGCFMLMNTG EKAVKSENGL LTTIACGPTG
EVNYALEGAV FMAGASIQWL RDEMKLINDA YDSEYFATKV QNTNGVYVVP AFTGLGAPYW DPYARGAIFG LTRGVNANHI
IRATLESIAQ QTRDVLEAMQ ADGIRLHAL RVDGGAVANN FLMQFQSDIL GTRVERPEVR EVTALGAAYL AGLAVGFWQN
LDELQEKAVI EREFRPGIET TERNYRYAGW KKAVKRAMAW EEHDE

General References

Freddolino, P.L., et al. (2012) J. Bacteriol. 194 (2), 303-306

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)