

AR51882PU-N**glpK (1-847, His-tag) - Purified****Alternate names:**

Glycerol kinase

Quantity:

0.5 mg

Concentration:

1.0 mg/ml (determined by bradford assay)

Background:

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.

Uniprot ID:[POA6F3](#)**NCBI:**[NP_418361](#)**GeneID:**[948423](#)**Source:**

E. coli

Format:**State:** Liquid purified protein**Purity:** >95% by SDS - PAGE**Buffer System:** Liquid, In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT.**Description:**

Recombinant E.coli glpK, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MGSMTCKYI VALDQGTSS RAVVMDHDAN IISVSQREFE
QIYPKPGWVE HDPMEIWATQ SSTLVEVLAK ADISSDQIAA IGITNQRETT IVWEKETGKP
IYNAIVWQCR RTAEICEHLK RDGLEDYIRS NTGLVIDPYF SGTKVKWILD HVEGSRERAR
RGELLLFGTVD TWLIWKMTQG RVHVTDYTNA SRTMLFNIHT LDWDDKMLEV LDIPREMLPE
VRRSSEVYGQ TNIGGKGGTR IPISGIAGDQ QAALFGQLCV KEGMAKNTYG TGCFMLMNTG
EKAVKSENGL LTTIACGPTG EVNYALEGAV FMAGASIQWL RDEMKLINDA YDSEYFATKV
QNTNGVYVVP AFTGLGAPYW DPYARGAIFG LTRGVNANHI IRATLESIAIY QTRDVLEAMQ
ADSGIRLHAL RVDGGAVANN FLMQFQSDIL GTRVERPEVR EVTALGAAYL AGLAVGFWQN
LDELQEKAVI EREFRPGIET TERNRYAGW KKAVKRAMAW EEHDE

Molecular weight: 58.6 kDa (525aa)**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

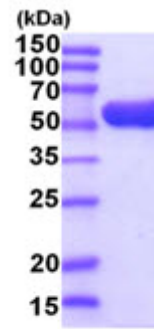
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

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

Pictures:



15% SDS-PAGE (3ug)