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Recombinant E.coli glk protein

Catalog Number: ATGP3233

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-321aa

UniProt No.
P0A6V8

NCBI Accession No.
NP_416889

Alternative Names
Glucokinase, ECK2384, JW2385

PRODUCT SPECIFICATION

Molecular Weight
37.1 kDa (344aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol

Purity
> 95% by SDS-PAGE

Biological Activity
Specific activity is > 70unit/mg obtained by measuring the increase of NADPH in absorbance at 340 nm resulting from the reduction of NADP. One unit will oxidize 1.0 umole of Glucose to D-glucose 6-phosphate per minute in the presence of Beta-NADP at pH 9.0 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
glk belongs to the bacterial glucokinase family. This protein is not highly important in E. coli as glucose is transported into the cell by the PTS system already as glucose 6-phosphate. Recombinant E. coli glk protein,

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

Amino acid Sequence

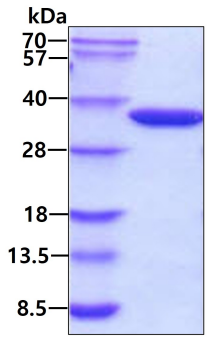
<MGSSHHHHHH SSGLVPRGSH MGS>MTKYALV GDVGGTNARL ALCDIASGEI SQAKTYSGLD YPSLEAVIRV YLEEHKVEVK DGCIAIACPI TGDWVAMTNH TWAFSIAEMK KNLGFSHLEI INDFTAVSMA IPMLKKEHLI QFGGAEPVEG KPIAVYGAGT GLGVAHLVHV DKRWVSLPGE GGHVDFAPNS EEEAIILEIL RAEIGHVSAE RVLSGPGLVN LYRAIVKADN RLPENLKPKD ITERALADSC TDCRRALSLF CVIMGRFGGN LALNLGTFGG VFIAGGIVPR FLEFFKASGF RAAFEDKGRF KEYVHDIPVY LIVHDNPGLL GSGAHLRQTL GHIL

General References

Kawai S, Mukai T, et al. (2005) J. Biosci. Bioeng. 99 (4): 320-30.

DATA

SDS-PAGE



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