

**AR51988PU-N****E. coli Glk (1-321, His-tag) - Purified****Alternate names:**

ECK2384, Glucokinase, JW2385

**Quantity:**

0.1 mg

**Concentration:**

1.0 mg/ml (determined by bradford assay)

**Background:**

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

**Uniprot ID:**[P0A6V8](#)**NCBI:**[NP\\_416889](#)**GeneID:**[946858](#)**Species:**

E. coli

**Source:**

E. coli

**Format:****State:** Liquid purified protein**Purity:** >95% by SDS - PAGE**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol.**Description:****AA Sequence:**

MGSSHHHHHH SGLVPRGSH MGSMTKYALV GDVGGTNARL ALCDIASGEI SQAQTYSGLD  
YPSLEAVIRV YLEEHKVEVK DGCIAIACPI TGDWVAMTNH TWAFSIAEMK KNLGFSHLEI  
INDFTAVSMA IPMLKKEHLI QFGGAEPEVEG KPIAVYGAGT GLGVAHLVHV DKRWVSLPGE  
GGHVDFAPNS EEEAIILEIL RAEIGHVSAE RVLSPGGLVN LYRAIVKADN RLPENLKPDK  
ITERALADSC TDCRRALSLF CVIMGRFGGN LALNLGTFGG VFIAGGIVPR FLEFFKASGF  
RAAFEDKGRF KEYVHDIPVY LIVHDNPGLL GSGAHLRQTL GHIL

**Specific Activity:** Specific activity is > 70 units/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.

**Molecular weight:** 37.1 kDa (344aa), confirmed by MALDI-TOF

**Storage:**

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

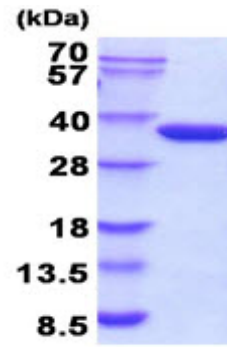
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

**General Readings:**

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

Pictures:



15% SDS-PAGE (3ug)