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AR51988PU-S E. coli Glk (1-321, His-tag) - Purified

Alternate names: ECK2384, Glucokinase, JW2385

Quantity: 20 µg

Concentration: 1.0 mg/ml (determined by bradford assay)

Background: glk belongs to the bacterial glucokise 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. Recombint E.coli glk protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventiol chromatography techniques.

Uniprot ID: P0A6V8

NCBI: NP_416889

GeneID: 946858

Species: E. coli

Source: E. coli

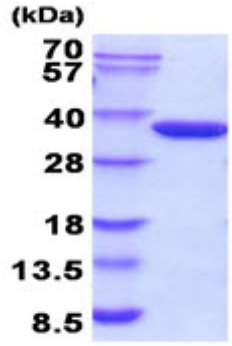
Format:
State: Liquid purified protein
Purity: >95% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol.

Description:
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MGSMTKYALV 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
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)