

Active Recombinant E.coli glk Protein, His-tagged

Cat. No. glk-388E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant E.coli glk protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	E.coli
Source	E.coli
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol.
Bio-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
Molecular Mass	37.1kDa (344aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMTKYALV GDVGGTNARL ALCDIASGEI SQAKTYSGLD YPSLEAVIRV YLEEHKVEVK DGCIAIACPITGDWVAMTNH TWAFSIAEMK KNLGFSHLEI INDFTAVSMA IPMLKKEHLI QFGGAEPVEG KPIAVYGAGT GLGVAHLVHV DKRWVSLPGE GGHVDFAPNS EEEAILEIL RAEIGHVSAE RVLSGPGLVN LYRAIVKADN RLPENLKPKD ITERALADSC

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TDCRRALSLF CVIMGRFGGNLALNLGTFGG VFIAGGIVPR FLEFFKASGF
RAAFEDKGRF KEYVHDIPVY LIVHDNPGLL GSGAHLRQTL GHIL

Purity >95% by SDS - PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [glk glucokinase \[Escherichia coli str. K-12 substr. MG1655 \]](#)

Official Symbol [glk](#)

Synonyms ECK2384; JW2385; glucokinase

Gene ID [946858](#)

mRNA Refseq

Protein Refseq [NP_416889](#)

MIM

UniProt ID [P0A6V8](#)

Pathway Amino sugar and nucleotide sugar metabolism, organism-specific biosystem;
Biosynthesis of antibiotics, organism-specific biosystem; Carbon metabolism,
conserved biosystem

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