

E.Coli GLK Recombinant Protein



RPPB2543

Product Information Protein Information

Product SKU:

RPPB2543

Accession:

P0A6V8

Host:

Escherichia Coli.

Protein description:

GLK E.Coli Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 344 amino acids (1-321) and having a molecular mass of 37.1kDa. GLK is fused to a 23 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Appearance:

Sterile Filtered colorless solution.

Synonyms:

Glucokinase, ECK2384, JW2385.

Formulation:

GLK protein solution (1mg/ml) contains 0.15M NaCl, 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.

Purity:

Greater than 95.0% as determined by SDS-PAGE.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid Sequence:

MGSSHHHHHH SSSLVPRGSH MGSMTKYALV GDVGGTNARL ALCDIASGEI SQAQTYSGLD YPSLEAVIRV
YLEEHKVEVK DGCIAIACPI TGDWVAMTNH TWAFSIAEMK KNLGFSHLEI INDFTAVSMA IPMLKKEHLI
QFGGAEPVEG KPIAVYGAGT GLGVAHLVHV DKRWVSLPGE GGHVDFAPNS EEEAIIILEIL RAEIGHVSAE
RVLSGPGLVN LYRAIVKADN RLPENLKPKD ITERALADSC TDCRRALSFL CVIMGRFSGN LALNLGTFGG
VFIAGGIVPR FLEFFKASGF RAAFEDKGRF KEYVHDIPVY LIVHDNPGLL GSGAHLRQTL GHIL

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.