
Product Data Sheet

Product Name: GLK E.coli
 Cat. No.: GP22524
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glucokinase; Glucose kinase; glk; b2388; JW2385.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMTKYALV GDVGGTNARL ALCDIASGEI SQAKTYSGLD YPSLEAVIRVYLEEHKVEVK DGCIAIACPI TGDWVAMTNH TWAFSIAEMK KNLGFSHLEI INDFTAVSMA IPMLKKEHLIQFGGAEPVEG KPIAVYGAGT GLGVAHLVHV DKRWVSLPGE GGHVDFAPNS EEEAIILEIL RAEIGHVSAE RVLSPGGLVN LYRAIVKADNRLPENLKPKD ITERALADSC TDCRRALSLF CVIMGRFGGN LALNLGTFGG VFIAGGIVPR FLEFFKASGFRAAFEDKGRF KEYVHDIPVY LIVHDNPGLL GSGAHLRQTL GHIL.		
Formulation	GLK protein solution (1.0 mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl and 10% glycerol.		

Introduction

Glucokinase also known as GLK is a member of the bacterial glucokinase family. GLK is not highly significant in E.coli since glucose is already transported into the cell through the PTS system as glucose 6-phosphate.

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.

Background

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

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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