Glucokinase-1 (GLK1) Saccharomyces Cerevisiae Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glucokinase-1 (GLK1), Recombinant Protein
Full Product Name	Recombinant Saccharomyces cerevisiae Glucokinase-1 (GLK1)
Product Gene Name	GLK1 recombinant protein
Sequence	SFDDLHKATE RAVIQAVDQI CDDFEVTPEK LDELTAYFIE QMEKGLAPPK EGHTLASDKG LPMIPAFVTG SPNGTERGVL LAADLGGTNF RICSVNLHGD HTFSMEQMKS KIPDDLLDDE NVTSDDLFGF LARRTLAFMK KYHPDELAKG KDAKPMKLGF TFSYPVDQTS LNSGTLIRWT KGFRIADTVG KDVVQLYQEQ LSAQGMPMIK VVALTNDTVG TYLSHCYTSD NTDSMTSGEI SEPVIGCIFG TGTNGCYMEE INKITKLPQE LRDKLIKEGK THMIINVEWG SFDNELKHLP TTKYDVVIDQ KLSTNPGFHL FEKRVSGMFL GEVLRNILVD LHSQGLLLQQ YRSKEQLPRH LTTPFQLSSE VLSHIEIDDS TGLRETELSL LQSLRLPTTP TERVQIQKLV RAISRRSAYL AAVPLAAILI KTNALNKRYH GEVEIGCDGS VVEYYPGFRS MLRHALALSP LGAEGERKVH LKIAKDGSGV GAALCALVA
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	55,377 Da
Sequence Positions	2-500, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P17709
Species	Saccharomyces cerevisiae (strain 204508 / S288c) (Baker's yeast)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GLK1 recombinant protein	MBS1165550 is a recombinant protein targeting GLK1. Also known as Recombinant Saccharomyces cerevisiae Glucokinase-1 (GLK1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of GLK1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GLK1. It may not necessarily be applicable to this product.

NCBI GI #	6319809
NCBI GeneID	850317
NCBI Accession #	NP_009890.1
UniProt Primary Accession #	P17709

UniProt Secondary Accession #	D6VQX5
UniProt Related Accession #	P17709
GenBank Nucleotide #	NM_001178685.1
NCBI Official Full Name	glucokinase
NCBI Official Symbol	GLK1
NCBI Official Synonym Symbols	HOR3
UniProt Protein Name	Glucokinase-1
UniProt Synonym Protein Names	Glucose kinase 1; GLK-1
Protein Family	Glucokinase
UniProt Gene Name	GLK1
UniProt Synonym Gene Names	HOR3; GLK-1
NCBI Protein Information	glucokinase
UniProt Comments for GLK1	Two isoenzymes, hexokinase-1 and hexokinase-2, can phosphorylate keto- and aldohexoses in yeast, whereas a third isoenzyme, GLK, is specific for aldohexoses. All glucose phosphorylating enzymes are involved in glucose uptake.Miscellaneous: Present with 21100 molecules/cell in log phase SD medium.
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