
Product Data Sheet

Product Name: HK3 Human
 Cat. No.: GP22530
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms Hexokinase-3; EC 2.7.1.1; Hexokinase type III; HK III; HXK3; HK3.

Amino Acid Sequence

MGSSHHHHHH SSGLVPRGSH MDSIGSSGLR QGEETLSCSE EGLPGPSDSSE
 LVQECLQQFKVTRAQLQQI QASLLGSMEQ ALRGQASPAP AVRMLPTYVG
 STPHGTEQGD FVVLELGATG ASLRVLWVTL TGIEGHRVEP RSQEFVIPQE
 VMLGAGQQLF DFAAHCLSEF LDAQPVNKQGLQLGFSFSFP CHQTGLDRST
 LISWTKGFRC SGVEGQDVVQ LLRDAIRRQG AYNIDVVAVV NDTVGTMMGC
 EPGVRPCEVG LVVDTGTNAC YMEEARHVAV LDEDRGRVCV SVEWGSFSDD
 GALGPVLTTF DHTLDHESLN PGAQRFEKMI GGLYLGELVR LVLAHLARCG
 VLFGGCTSPA LLSQGSILLE HVAEMEDPST GAARVHAILQ DLGLSPGASD
 VELVQHVCAA VCTRAAQLCA AALAAVLSCL QHSREQQTLQ VAVATGGRVC
 ERHPRFCSVL QGTVMLLAPE CDVSLIPSVDGGGRGVAMVT AVAARLAAHR
 RLLEETLAPF RLNHDQLAAV QAQMRKAMAK GLRGEASSLR MLPTFVRATP
 DGSERGDFLA LDLGGTNFRV LLVRVTTGVQ ITSEIYSIPE TVAQGSQQQL
 FDHIVDCIVD FQKQGLSGQ SLPLGFTFSF PCRQLGLDQG ILLNWTKGFK
 ASDCEGQDVV SLLREAITRR QAVELNVVAI VNDTVGTMMMS CGYEDPRCEI
 GLIVGTGTNA CYMEELRNAGVPGDSGRMC INMEWGAFGD DGSLAMLSTR
 FDASVDQASI NPGKQRFEM ISGMYLGEIV RHILLHLTSL GVLFRGQQIQ
 RLQTRDIFKT KFLSEIESDS LALRQVRAIL EDLGLPLTSDDALMVLEVCQ
 AVSQRAAQLC GAGVAAVVEK IRENRGLEEL AVSVGVDGTL YKLHPRFSSL
 VAATVRELAP RCVVTFLLQSE DGSGKGAALV TAVACRLAQL TRV.

Formulation The protein (1mg/ml) contains 20mM Tris pH 8.0 and 10% glycerol.

Introduction

Hexokinases phosphorylate glucose to produce glucose-6-phosphate, thus committing glucose to the glycolytic pathway. HK3 encodes hexokinase 3. Similar to hexokinases 1

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

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and 2, this allosteric enzyme is inhibited by its product glucose-6-phosphate. Hexokinase3 lacks the hydrophobic N-terminal sequence critical for targeting to mitochondria. Hexokinase3 may have anabolic functions, providing H6P for glycogen or lipid synthesis.

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). Please avoid freeze-thaw cycles.

Background

HK-3 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain fused to His tag at the N-terminal encoding the sequence of 943 amino acids and having a molecular mass of 101.1 kDa. HXK3 is purified by proprietary chromatographic techniques.

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