

32-3031: HK-3 Recombinant Protein

Alternative Name : Hexokinase-3, EC 2.7.1.1, Hexokinase type III, HK III, HXK3, HK3.

Description

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

Product Info

Amount :	10 µg
Purification :	Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Content :	The protein (1mg/ml) contains 20mM Tris pH 8.0 and 10% glycerol.
Storage condition :	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 it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.
Amino Acid :	MGSSHHHHH SSSLVPRGSH MDSIGSSGLR QGEETLSCSE EGLPGPSDSSE LVQECLQQFKVTRAQLQQI QASLLGSMEQ ALRGQASPAP AVRMLPTYVG STPHGTEQGD FVVLELGATG ASLRVLWVTL TGIEGHRVPEP RSQEFVIPQE VMLGAGQQLF DFAAHLSEF LDAQPVNKQGLQLGFSFSFP CHQTGLDRST LISWTKGFRC SGVEGQDVVQ LLRDAIRRQG AYNIDVVAVV NDTVGTMMGC EPGVRPCEVG LVVDTGTNAC YMEEARHVAV LDEDRGRVCV SVEWGSFSDD GALGPVLTTF DHTLDHESLN PGAQRFEKMI GGLYLGEIVR LVLHLARCG VLFGGCTSPA LLSQGSILLE HVAEMEDPST GAARVHAILQ DLGLSPGASD VELVQHVCVA VCTRAAQLCA AALAAVLSCL QHSREQQLTQ VAVATGGRVC ERHPRFCSVL QGTMMLAPE CDVSLIPSDGGGRGVAMVT AVAARLAAHR RLLEETLAPF RLNHDQLAAV QAQMRKAMAK GLRGEASSLR MLPTFVRATP DGSEKDFLA DLGGTNFRV LLVRVTTGVQ ITSEIYSIPE TVAQGSQQQL FDHIVDCIVD FQKQGLSGQ SLPLGFTFSF PCRQLGLDQG ILLNWTGKGF ASDCEGQDVV SLLREAITRR QAVELNVVAI VNDTVGTMMMS CGYEDPRCEI GLIVGTGTNA CYMEELRNVAGVPGDSGRMC INMEWGAFGD DGSLAMLSTR FDASVDQASI NPGKQRFEKM ISGMYLGEIV RHILLHLTSL GVLFRGQQIQ RLQTRDIFKT KFLSEIESDS LALRQVRAIL EDLGLPLTSDDALMVLEVCQ AVSQRAAQLC GAGVAAVVEK IRENRGLEEL AVSVGVDGTL YKLHPRFSSL VAATVRELAP RCVVTFLLQSE DGSGKGAALV TAVACRLAQL TRV.

