Recombinant Human Hexokinase 3,His-tagged

Cat. No. HK3-42H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Hexokinase3, fused to His tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques,101.1kDa (943aa).
Species	Human
Source	E.coli
Description	Hexokinase is the first enzyme in the glycolytic pathway, catalyzing the transfer of a phosphoryl group from ATP to glucose to form glucose-6-phosphate and ADP. In mammals, four distinct enzymes-types 1 to 4 hexokinases-have been identified. The enzyme is found in most cells, but there is tissue specificity for the particular type of hexokinase. Hexokinase3 lacks the hydrophobic N-terminal sequence critical for targeting to mitochondria. Hexpkinase3 may have anabolic functions, providing H6P for glycogen or lipid synthesis.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MDSIGSSGLR QGEETLSCSE EGLPGPSDSS ELVQECLQQF KVTRAQLQQI QASLLGSMEQ ALRGQASPAP AVRMLPTYVG STPHGTEQGD FVVLELGATG ASLRVLWVTL TGIEGHRVEP RSQEFVIPQE VMLGAGQQLF DFAAHCLSEF LDAQPVNKQG LQLGFSFSFP CHQTGLDRST LISWTKGFRC SGVEGQDVVQ LLRDAIRRQG AYNIDVVAVV NDTVGTMMGC EPGVRPCEVG LVVDTGTNAC YMEEARHVAV LDEDRGRVCV SVEWGSFSDD GALGPVLTTF DHTLDHESLN PGAQRFEKMI GGLYLGELVR LVLAHLARCG VLFGGCTSPA LLSQGSILLE HVAEMEDPST GAARVHAILQ DLGLSPGASD

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	VELVQHVCAA VCTRAAQLCA AALAAVLSCL QHSREQQTLQ VAVATGGRVC ERHPRFCSVL QGTVMLLAPE CDVSLIPSVD GGGRGVAMVT AVAARLAAHR RLLEETLAPF RLNHDQLAAV QAQMRKAMAK GLRGEASSLR MLPTFVRATP DGSERGDFLA LDLGGTNFRV LLVRVTTGVQ ITSEIYSIPE TVAQGSGQQL FDHIVDCIVD FQQKQGLSGQ SLPLGFTFSF PCRQLGLDQG ILLNWTKGFK ASDCEGQDVV SLLREAITRR QAVELNVVAI VNDTVGTMMS CGYEDPRCEI GLIVGTGTNA CYMEELRNVA GVPGDSGRMC INMEWGAFGD DGSLAMLSTR FDASVDQASI NPGKQRFEKM ISGMYLGEIV RHILLHLTSL GVLFRGQQIQ RLQTRDIFKT KFLSEIESDS LALRQVRAIL EDLGLPLTSD DALMVLEVCQ AVSQRAAQLC GAGVAAVVEK IRENRGLEEL AVSVGVDGTL YKLHPRFSSL VAATVRELAP RCVVTFLQSE DGSGKGAALV TAVACRLAQL TRV
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol
Purity	> 95% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	HK3 hexokinase 3 (white cell) [Homo sapiens]
Synonyms	Hexokinase-3; EC 2.7.1.1; Hexokinase type III; HK III; HXK3; HK3; ATP:D-hexose 6-phosphotransferase; hexokinase 3; hexokinase 3 (white cell); HK-3
Gene ID	3101
mRNA Refseq	NM_002115

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Protein Refseq	NP_002106
MIM	142570
UniProt ID	P52790
Chromosome Location	5q35.2
Pathway	Aminosugars metabolism; Fructose and mannose metabolism; Galactose metabolism; Glycolysis / Gluconeogenesis; Starch and sucrose metabolism; Streptomycin biosynthesis; Metabolism of carbohydrates
Function	ATP binding; hexokinase activity; kinase activity; nucleotide binding; transferase activity

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