

Recombinant Human Hexokinase 3, His-tagged

Cat. No. HK3-1143H **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.
Species	Human
Source	Human
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. Hexokinase3 may have anabolic functions, providing H6P for glycogen or lipid synthesis.
Concentration	1 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl, pH 8.0, containing 10% glycerol.
Purity	> 95% by SDS - PAGE
Sequence	MGSSHHHHH SSGLVPRGSH MDSIGSSGLR QGEETLSCSE EGLPGPSDSS ELVQECLQQF KVTRAQLQQI QASLLGSMEQ ALRGQASPAP AVRMLPTYVG STPHGTEQGD FVVLELGATG ASLRVLWVTL TGIEGHRVEP RSQEFVIPQE VMLGAGQQLF DFAAHCLSEF LDAQPVNKQG LQLGFSFSFP CHQTGLDRST

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	LISWTKGFRC SGVEGQDVVQ LLRDAIRRQG AY
Molecular Mass	101.1 kDa (943aa)
Applications	SDS-PAGE
Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or - 70 deg C for long term storage. Avoid repeated freeze/thaw cycles.
GENE INFORMATION	
Gene Name	HK3 hexokinase 3 (white cell) [Homo sapiens]
Official Symbol	HK3
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
Protein Refseq	NP_002106
MIM	142570
UniProt ID	P52790
Chromosome Location	5q35.2
Pathway	Aminosugars metabolism; Fructose and mannose metabolism; Galactose

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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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