

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

 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

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

 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

metabolism; Glycolysis / Gluconeogenesis; Starch and sucrose metabolism;
Streptomycin biosynthesis; Metabolism of carbohydrates

Function

ATP binding; hexokinase activity; kinase activity; nucleotide binding; transferase
activity

 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