Recombinant Human Ketohexokinase (fructokinase)

Cat. No. KHK-905H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Ketohexokinase Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 298 amino acids and having a molecular mass of 32.7 kDa.
Species	Human
Source	Human
Description	Ketohexokinase catalyzes the phosphorylation of fructose to produce fructose-1-phosphate, resulting in the utilization of ATP and creation of AMP. Ketohexokinase commences initial step in the metabolism of dietary fructose and is a significant regulator of hepatic glucose metabolism. Ketohexokinase is found in liver, renal cortex, and small intestine.
Form	The protein solution contains 1xPBS, pH 7.4 and 10 % glycerol.
Purity	Greater than 90.0 % as determined by SDS-PAGE.
Amino acid sequence	MEEKQILCVG LVVLDVISLV DKYPKEDSEI RCLSQRWQRG GNASNSCTIL SLLGAPCAFM GSMAPGHVAD FVLDDLRRYS VDLRYTVFQT TGSVPIATVI INEASGSRTI LYYDRSLPDV SATDFEKVDL TQFKWIHIEG RNASEQVKML QRIDAHNTRQ PPEQKIRVSV EVEKPREELF QLFGYGDVVF VSKDVAKHLG FQSAEEALRG LYGRVRKGAV LVCAWAEEGA DALGPDGKLL HSDAFPPPRV VDTLGAGDTF NASVIFSLSQ GRSVQEALRF GCQVAGKKCG LQGFDGIV

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

Storage	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). Avoid multiple freeze-thaw cycles.

GENE INFORMATION

Gene Name	KHK ketohexokinase (fructokinase) [Homo sapiens]
Official Symbol	KHK
Synonyms	KHK; ketohexokinase (fructokinase); ketohexokinase; OTTHUMP00000122595; OTTHUMP00000122596; OTTHUMP00000200951; hepatic fructokinase
Gene ID	3795
mRNA Refseq	NM_000221
Protein Refseq	NP_000212
MIM	614058
UniProt ID	P50053
Chromosome Location	2p23.3-p23.2
Pathway	Fructose and mannose metabolism; Fructose catabolism; Metabolic pathways; Metabolism of carbohydrates
Function	ATP binding; ketohexokinase activity; kinase activity; nucleotide binding; protein binding; transferase activity

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