Recombinant Human Ketohexokinase

Cat. No. KHK-491H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Ketohexokinase was expressed in*E.coli*and purified by using conventional chromatography.
Species	Human
Source	E.coli
Description	Ketohexokinase is an enzyme that catalyzes the phosphorylation of fructose to produce fructose-1-phosphate, leading to consumption of ATP, formation of AMP. This protein initiates first step in the metabolism of dietary fructose and is an important regulator of hepatic glucose metabolism. It is highly found in liver, renal cortex, and small intestine. Its deficiency causes the benign hereditary metabolic disorder essential fructosuria, leading to fructose being excreted in the urine.
Sequences of amino acids	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
Form	Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% Glycerol
Molecular Weight	32.7 kDa (298aa)

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Purity	> 90% 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.
Pathways	Fructose and mannose metabolism; Metabolic pathways; Metabolism of carbohydrates

GENE INFORMATION

Gene Name	KHK ketohexokinase (fructokinase) [Homo sapiens]
Synonyms	KHK; ketohexokinase (fructokinase); ketohexokinase; EC 2.7.1.3; ketohexokinase; Hepatic fructokinase;
Gene ID	3795
mRNA Refseq	NM_000221
Protein Refseq	NP_000212
MIM	229800
UniProt ID	P50053
Chromosome Location	2p23.3
Function	ATP binding; ketohexokinase activity; kinase activity; nucleotide binding; protein

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	binding; transferase activity

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