

## Recombinant Human Kethexokinase (fructokinase)

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

### SPECIFICATION

<b>Product Overview</b>	Kethexokinase 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.
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	Kethexokinase catalyzes the phosphorylation of fructose to produce fructose-1-phosphate, resulting in the utilization of ATP and creation of AMP. Kethexokinase commences initial step in the metabolism of dietary fructose and is a significant regulator of hepatic glucose metabolism. Kethexokinase is found in liver, renal cortex, and small intestine.
<b>Form</b>	The protein solution contains 1xPBS, pH 7.4 and 10 % glycerol.
<b>Purity</b>	Greater than 90.0 % as determined by SDS-PAGE.
<b>Amino acid sequence</b>	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 NASVIFLSLQ GRSVQEALRF GCQVAGKKCG LQGFDGIV

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**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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