

## Recombinant Human KHK

Cat. No. KHK-29893TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human ketohexokinase; amino acids 1-298, 32.7kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	298 amino acids
<b>Description</b>	This gene encodes ketohexokinase that catalyzes conversion of fructose to fructose-1-phosphate. The product of this gene is the first enzyme with a specialized pathway that catabolizes dietary fructose. Alternatively spliced transcript variants encoding different isoforms have been identified.
<b>Molecular Weight</b>	32.700kDa
<b>Tissue specificity</b>	Most abundant in liver, kidney, gut, spleen and pancreas. Low levels also found in adrenal, muscle, brain and eye.
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 10% Glycerol, PBS, pH 7.4
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated

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freeze / thaw cycles.

**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 NASVIFLSLQ GRSVQEALRF GCQVAGKKCG LQGFDGIV

**Sequence Similarities**

Belongs to the carbohydrate kinase pfkB family.

## GENE INFORMATION

**Gene Name** [KHK ketohexokinase \(fructokinase\) \[ Homo sapiens \]](#)

**Official Symbol** [KHK](#)

**Synonyms** KHK; ketohexokinase (fructokinase); ketohexokinase;

**Gene ID** [3795](#)

**mRNA Refseq** [NM\\_000221](#)

**Protein Refseq** [NP\\_000212](#)

**MIM** [614058](#)

**Uniprot ID** [P50053](#)

**Chromosome Location** 2p23.3-p23.2

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**Pathway**

Fructose and mannose metabolism, organism-specific biosystem; Fructose and mannose metabolism, conserved biosystem; Fructose catabolism, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism of carbohydrates, organism-specific biosystem;

**Function**

ATP binding; ketohexokinase activity; kinase activity; nucleotide binding; transferase activity;

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