

Recombinant Human KHK

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

SPECIFICATION

Product Overview	Recombinant full length Human ketohexokinase; amino acids 1-298, 32.7kDa.
Species	Human
Source	E.coli
ProteinLength	298 amino acids
Description	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.
Molecular Weight	32.700kDa
Tissue specificity	Most abundant in liver, kidney, gut, spleen and pancreas. Low levels also found in adrenal, muscle, brain and eye.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 10% Glycerol, PBS, pH 7.4
Storage	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 NASVIFSLSQ 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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