

# 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<br>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                                                                                                                                                                                                                      |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

freeze / thaw cycles.

#### Sequences of amino acids

MEEKQILCVG LVLVDVISLV 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 LQGF DGIV

#### 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                 |                                                                                                                                                                                                                                                                                  |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pathway</b>  | 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; |
| <b>Function</b> | ATP binding; ketohexokinase activity; kinase activity; nucleotide binding; transferase activity;                                                                                                                                                                                 |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA