

## Active Recombinant Human KHK, His-tagged

Cat. No. KHK-450H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human KHK (Met1-Val298), fused with C-terminal 6-His tag, was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-298 a.a.
<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>Predicted N Terminal</b>	Met1
<b>Form</b>	Supplied as a 0.2 µm filtered solution in Tris, NaCl, Brij-35 and DTT.
<b>Bio-activity</b>	Measured by its ability to phosphorylate D-(-)-fructose. The specific activity is >1,100 pmol/min/g.
<b>Molecular Mass</b>	Predicted Molecular Mass: 34 kDa SDS-PAGE: 28-32 kDa, reducing conditions
<b>Endotoxin</b>	< 1.0 EU per 1 µg of the protein by the LAL method.

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**Purity** >95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 g per lane.

**Storage** Avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 °C as supplied. 3 months, -20 to -70 °C under sterile conditions after opening.

## GENE INFORMATION

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

**Official Symbol** KHK

**Synonyms** KHK; ketohexokinase (fructokinase); ketohexokinase; hepatic fructokinase; NP\_000212.1; EC 2.7.1.3; NP\_006479.1

**Gene ID** 3795

**mRNA Refseq** NM\_000221

**Protein Refseq** NP\_000212

**MIM** 614058

**UniProt ID** P50053

**Chromosome Location** 2p23.3

**Pathway** Fructose and mannose metabolism; Fructose catabolism; sucrose degradation V (mammalian)

**Function** ATP binding; ketohexokinase activity

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