

Active Recombinant Human KHK, His-tagged

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

SPECIFICATION

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