

Recombinant human Ketohexokinase protein

Catalog Number: ATGP0437

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-298aa

UniProt No.

P50053

NCBI Accession No.

AAH06233

Alternative Names

KHK, Hepatic fructokinase, EC 2.7.1.3, Hepatic fructokinase, ketohexokinase, Ketohexokinase isoform a,

PRODUCT SPECIFICATION

Molecular Weight

32.7 kDa (298aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Tag

Non-Tagged

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Ketohexokinase is an enzyme that catalyzes the phosphorylation of fructose to produce fructose-1-phosphate, leading to consumption of ATP, formation of AMP. This protein initiates first step in the metabolism of dietary fructose and is an important regulator of hepatic glucose metabolism. It is highly found in liver, renal cortex, and small intestine. Its deficiency causes the benign hereditary metabolic disorder essential fructosuria, leading to fructose being excreted in the urine. Recombinant human Ketohexokinase was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

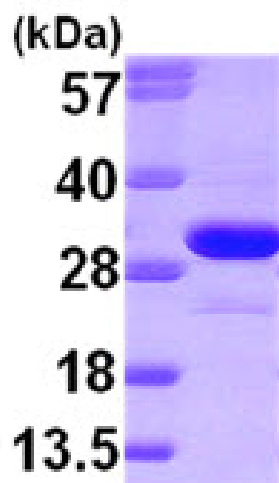
MEEKQILCVG LVVLDVISLV DKYPKEDSEI RCLSQRWQRG GNASNSCTIL SLLGAPCAFM GSMAPGHVAD FVLDDLRRYS
VDLRYTVFQT TGSVPIATVI INEASGSRTI LYYDRSLPDV SATDFEKVDL TQFKWIHIEG RNASEQVKML QRIDAHNTRQ
PPEQKIRVSV EVEKPREELF QLFGYGDVVF VSKDVAKHLG FQSAEEALRG LYGRVRKGAV LVCAWAEEGA DALGPDGKLL
HSDAFPPPRV VDTLGAGDTF NASVIFLSLQ GRSVQEALRF GCQVAGKKCG LQGFDGIV

General References

Bonthron DT., et al. (2009) J Histochem Cytochem. 57(8):763-74.
Schermerhorn T., et al. (2009) Res Vet Sci. 87(1):115-7.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)