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

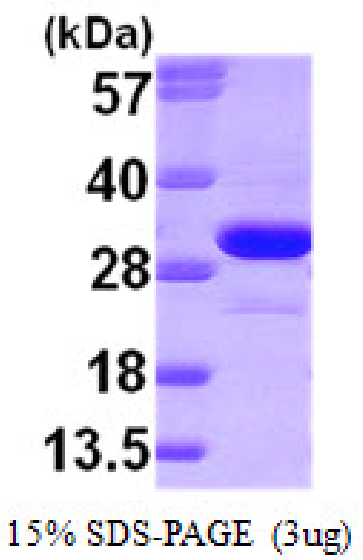
MEEKQILCVG LVVLDVISLV DKYPKEDSEI RCLSQRWQRG GNASNSCTIL SLLGAPCAFM GSMAPGHVAD FVLDDLRRYS VDLRYTVFQT TGSVPIATVI INEASGSRTI LYYDRSLPDV SATDFEKVDL TQFKWIHIEG RNASEQVKML QRIDAHNTRQ PPEQKIRVSV EVEKPREELF QLFGYGDVVF VSKDVAKHLG FQSAEEALRG LYGRVRKGAV LVCAWAEEGA DALGPDGKLL HSDAFPPPRV VDTLGAGDTF NASVIFSLSQ GRSVQEALRF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