

32-3039: Ktohexokinase Recombinant Protein

Alternative Name : KHK,Hepatic Fructokinase,Ktohexokinase,Fructokinase.

Description

Source : Escherichia Coli. Ktohexokinase Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 298 amino acids and having a molecular mass of 32.7 kDa. Ktohexokinase catalyzes the phosphorylation of fructose to produce fructose-1-phosphate, resulting in the utilization of ATP and creation of AMP. Ktohexokinase commences initial step in the metabolism of dietary fructose and is a significant regulator of hepatic glucose metabolism. Ktohexokinase is 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. Ktohexokinase-dependent metabolism of fructose induces proinflammatory mediators in proximal tubular cells. Ktohexokinase plays an unknown physiologic function that remains intact in essential fructosuria. Ktohexokinase expression is reduced in human clear cell type of renal cell carcinoma.

Product Info

Amount :	25 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	The protein solution contains 1xPBS, pH 7.4 and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid :	MEEKQILCVG LVVLDVISLV DKYPKEDSEI RCLSQRWQRG GNASNSCTIL SLLGAPCAFM GSMAPGHVAD FVLDDLRRYS VDLRYTVFQT TGSVPATVI INEASGSRTI LYYDRSLPDV SATDFEKVDL TQFKWIHIEG RNASEQVKML QRIDAHNTRQ PPEQKIRVSV EVEKPREELF QLFYGDVVF VSKDVAKHLG FQSAEEALRG LYGRVRKGAV LVCAWAEEGA DALGPDGKLL HSDAFPPPRV VDTLGAGDTF NASVIFSLSQ GRSVQEALRF GCQVAGKKCG LQFGDGIV.