Recombinant Human GK

Cat. No. GK-29028TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Glycerol kinase (aa 2-94) with a N terminal proprietary tag: predicted molecular weight 35.86 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	93 amino acids
Description	The protein encoded by this gene belongs to the FGGY kinase family. This protein is a key enzyme in the regulation of glycerol uptake and metabolism. It catalyzes the phosphorylation of glycerol by ATP, yielding ADP and glycerol-3-phosphate. Mutations in this gene are associated with glycerol kinase deficiency (GKD). Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Weight	35.860kDa inclusive of tags
Tissue specificity	Highly expressed in the liver, kidney and testis. Isoform 2 and isoform 3 are expressed specifically in testis and fetal liver, but not in the adult liver.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	AASKKAVLGPLVGAVDQGTSSTRFLVFNSKTAELLSHHQVEIKQEFPREGWVEQDP KEILHSVYECIEKTCEKLGQLNIDISNIKAIGVSNQR
Sequence Similarities	Belongs to the FGGY kinase family.

GENE INFORMATION

Gene Name	GK glycerol kinase [Homo sapiens]
Official Symbol	GK
Synonyms	GK; glycerol kinase; GK1; GKD;
Gene ID	2710
mRNA Refseq	NM_000167
Protein Refseq	NP_000158
MIM	300474
Uniprot ID	P32189
Chromosome Location	Xp21.3

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Pathway	Fatty Acid Beta Oxidation, organism-specific biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Glycerolipid metabolism, organism-specific biosystem; Glycerolipid metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem;
Function	ATP binding; glycerol kinase activity; glycerol kinase activity; nucleotide binding; transferase activity;

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