

Recombinant Human GK Protein, GST-tagged

Cat. No. GK-4936H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GK full-length ORF (AAH37549, 1 a.a. - 524 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	The product of this gene belongs to the FGGY kinase family of proteins and encodes glycerol kinase. Glycerol kinase 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. Defects in this gene are the cause of glycerol kinase deficiency (GKD). Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq]
Molecular Mass	83.38 kDa
AA Sequence	MAASKKAVLGPLVGAVDQGTSSSTRFLVFNSKTAELLSHHQVEIKQEFPREGWVEQD PKEILHSVYECIEKTCEKLGQLNIDISNIKAIGVSNQRETTVVWDKITGEPLYNAVWWL DLRTQSTVESLSKRIPGNNNFVKSKTGLPLSTYFSAVKLRWLLDNVRKVQKAVEEKR ALFGTIDSWLIWSLTGGVNGGVHCTDVTNASRTMLFNIHSLEWDKQLCEFFGIPMEIL PNVRSSSEIYGLMKAGALEGVPISGCLGDQSAALVGQMCFQIGQAKNTYGTGCFLL CNTGHKCVFSDHGLLTTVAYKLGRDKPVYYALEGSVAIAGAVIRWLRDNLGIIKTSEE IEKLAKEVGTSYGCYFVPAFSGLYAPYWEPSARGIICGLTQFTNKCHIAFAALEAVCF QTREILDAMNRDCGIPLSHLQVDGGMTSNKILMQLQADILYIPVVKPSMPETTALGAA

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	MAAGAAEGVGVSLEPEDLSAVTMERFEPQINAESEIRYSTWKKAVMKSMGWVT TQSPESGIP
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	GK glycerol kinase [Homo sapiens]
Official Symbol	GK
Synonyms	glycerol kinase; 4289; Ensembl:ENSG00000198814; glycerol kinase;glycerokinase;ATP:glycerol 3-phosphotransferase; 2.7.1.30; GK1; GKD
Gene ID	2710
mRNA Refseq	NM_000167
Protein Refseq	NP_000158
MIM	300474

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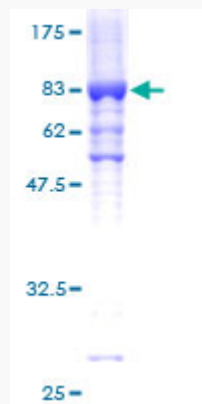
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UniProt ID

B4DH54

Quality Control
Testing



12.5% SDS-PAGE Stained with Coomassie Blue.

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