

## Recombinant Full Length Human GK Protein, GST-tagged

**Cat. No.** GK-5300HF    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human GK full-length ORF ( AAH37549, 1 a.a. - 524 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	524 amino acids
<b>Description</b>	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]
<b>Molecular Mass</b>	83.38 kDa
<b>AA Sequence</b>	MAASKKAVLGPLVGAVDQGTSSSTRFLVFNSKTAELLSHHQVEIKQEFPREGWVEQD PKEILHSVYECIEKTCEKLGQLNIDISNIKAIGVSNQRETTVVWDKITGEPLYNAVVWL DLRTQSTVESLSKRIPGNNNFVKSKTGLPLSTYFSAVKLRWLLDNVRKVQKAVEEKR ALFGTIDSWLIWSLTGGVNGGVHCTDVTNASRTMLFNIHSLEWDKQLCEFFGIPMEIL PNVRSSEIYGLMKAGALEGVPISGCLGDQSAALVGQMCQFQIGQAKNTYGTGCFLL CNTGHKCVFSDHGLLTTVAYKLGRDKPVYYALEGSVAIAGAVIRWLRDNLGIIKTSEE IEKLAKEVGTSGYGCYFVPAFSGLYAPYWEPSARGIICGLTQFTNKCHIAFAALEAVCF

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QTREILDAMNRDCGIPLSHLQVDGGMTSNKILMQLQADILYIPVVKPSMPETTALGAA  
 MAAGAAEGVGVWSLEPEDLSAVTMERFEPQINAESEIRYSTWKKAVMKSMGWVT  
 TQSPEGIP

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	GK glycerol kinase [ <a href="#">Homo sapiens</a> ]
<b>Official Symbol</b>	GK
<b>Synonyms</b>	glycerol kinase; 4289; Ensembl:ENSG00000198814; glycerol kinase;glycerokinase;ATP:glycerol 3-phosphotransferase; 2.7.1.30; GK1; GKD
<b>Gene ID</b>	2710
<b>mRNA Refseq</b>	NM_000167
<b>Protein Refseq</b>	NP_000158
<b>MIM</b>	300474

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