

Recombinant Human GK Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GK-4308H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GK MS Standard C13 and N15-labeled recombinant protein (NP_976325) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 Mass	58.2 kDa
AA Sequence	MAASKKAVLGPLVGAVDQGTSSSTRFLVFNSKTAELLSHHQVEIKQEFPREGWVEQD PKEILHSVYECIEKTCEKLGQLKIDISNIKAIGVSNQRETTVVWDKITGEPLYNAVWWL DLRTQSTVESLSKRITGNNNFVKSKTGLPLSTYFSAVKLRWLLDNVRKVQKAVEEKR ALFGTIDSWLIWSLTGGVNGGVHCTDVTNASRTMLFNIHSLEWDKQLCEFFGIPMEIL PNVRSSEIYGLMKISHSVKAGALEGVPISGCLGDQSAALVGQMCFQIGQAKNTYGT GCFLLCNTGHKCVFSDHGLLTTVAYKLRDKPVYYALEGSVAIAGAVIRWLRDNLGII KTSEEIEKLAKEVGTSYGCYFVPAFSGLYAPYWEPSARGIICGLTQFTNKCHIAFAAL

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EAVCFQTREILDAMNRDCGIPLSHLQVDGGMTSNKILMQLQADILYIPVVKPSMPETT
ALGAAMAAGAAEGVGWWSLEPEDLSAVTMERFEPQINAESEIRYSTWKKAVMKS
MGWVTTQSPESGIPTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name GK glycerol kinase [Homo sapiens (human)]

Official Symbol GK

Synonyms GK; glycerol kinase; GK1; GKD; glycerol kinase; ATP:glycerol 3-phosphotransferase; glycerokinase; EC 2.7.1.30

Gene ID 2710

mRNA Refseq NM_203391

Protein Refseq NP_976325

MIM 300474

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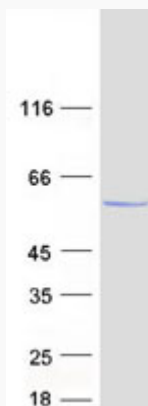
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UniProt ID

B4DH54

SDS-PAGE

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