

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

**Cat. No.** GK-4805H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | GK MS Standard C13 and N15-labeled recombinant protein (NP_000158) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | <p>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.</p> |
| <b>Molecular Mass</b>   | 57.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MAASKKAVLGPLVGAVDQGTSSSTRFLVFNSKTAELLSHHQVEIKQEFPREGWVEQD<br>PKEILHSVYECIEKTCEKLGQLNIDISNIKAIGVSNQRETTVVWDKITGEPLYNAVVL<br>DLRTQSTVESLSKRIPGNNNFVKSTGLPLSTYFSAVKLRWLLDNVRKVQKAVEEKR<br>ALFGTIDSWLIWSLTGGVNGGVHCTDVTNASRTMLFNIHSLEWDKQLCEFFGIPMEIL<br>PNVRSSEIYGLMKAGALEGVPISGCLGDQSAALVGQMCFQIGQAKNTYGTGCFLL<br>CNTGHKCVFSDHGLLTTVAYKLGRDKPVYYALEGSVAIAGAVIRWLRDNLGIIKTSEE<br>IEKLAKEVGTSYGCYFVPAFSGLYAPYWEPSARGIICGLTQFTNKCHIAFAALEAVCF   |

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QTREILDAMNRDCGIPLSHLQVDGGMTSNKILMQLQADILYIPVVKPSMPETTALGAA  
MAAGAAEGVGVSLEPEDLSAVTMERFEPQINAESEIRYSTWKKAVMKSMGWVT  
TQSPESGIPTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**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\\_000167](#)

**Protein Refseq** [NP\\_000158](#)

**MIM** [300474](#)

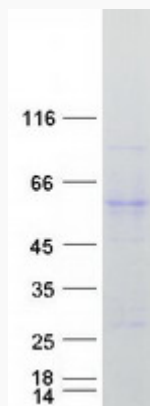
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**UniProt ID**

B4DH54

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