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# Product datasheet for TP307264M

## Glycerol kinase (GK) (NM_203391) Human Recombinant Protein

### Product data:

| | |
|---|---|
| **Product Type:** | Recombinant Proteins |
| **Description:** | Recombinant protein of human glycerol kinase (GK), transcript variant 1, 100 µg |
| **Species:** | Human |
| **Expression Host:** | HEK293T |
| **Expression cDNA Clone or AA Sequence:** | >RC207264 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MAASKKAVLGPLVGAVDQGTSSTRFLVFNSKTAELLSHHQVEIKQEFPREGWVEQDPKEILHSVYECIEK<br>TCEKLGQLKIDISNIKAIGVSNQRETTVVWDKITGEPLYNAVVWLDLRTQSTVESLSKRITGNNNFVKSK<br>TGLPLSTYFSAVKLRWLLDNVRKVQKAVEEKRALFGTIDSWLIWSLTGGVNGGVHCTDVTNASRTMLFNI<br>HSLEWDKQLCEFFGIPMEILPNVRSSSEIYGLMKISHSVKAGALEGVPISGCLGDQSAALVGQMCFQIGQ<br>AKNTYGTGCFLLCNTGHKCVFSDHGLLTTVAYKLGRDKPVYYALEGSVAIAGAVIRWLRDNLGIIKTSEE<br>IEKLAKEVGTSYGCYFVPAFSGLYAPYWEPSARGIICGLTQFTNKCHIAFAALEAVCFQTREILDAMNRD<br>CGIPLSHLQVDGGMTSNKILMQLQADILYIPVVKPSMPETTALGAAMAAGAAEGVGVWSLEPEDLSAVTM<br>ERFEPQINAEESEIRYSTWKKAVMKSMGWVTTQSPESGIP<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Tag:** | C-Myc/DDK |
| **Predicted MW:** | 58 kDa |
| **Concentration:** | >0.05 µg/µL as determined by microplate BCA method |
| **Purity:** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Buffer:** | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| **Preparation:** | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| **Note:** | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| **Storage:** | Store at -80°C. |
| **Stability:** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |

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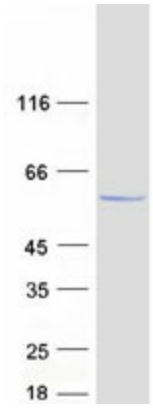
| | |
|---|---|
| **RefSeq:** | NP_976325 |
| **Locus ID:** | 2710 |
| **UniProt ID:** | P32189, B4DH54 |
| **RefSeq Size:** | 4503 |
| **Cytogenetics:** | Xp21.2 |
| **RefSeq ORF:** | 1590 |
| **Synonyms:** | GK1; GKD |
| **Summary:** | The protein encoded by this gene belongs to the FGGY kinase family. 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. [provided by RefSeq, Mar 2011] |
| **Protein Families:** | Druggable Genome |
| **Protein Pathways:** | Glycerolipid metabolism, Metabolic pathways, PPAR signaling pathway |

## Product images:




Coomassie blue staining of purified GK protein (Cat# [TP307264]). The protein was produced from HEK293T cells transfected with GK cDNA clone (Cat# [RC207264]) using MegaTran 2.0 (Cat# [TT210002]).

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