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Datasheet for ABIN7547968

**Glycerol Kinase Protein (GK) (AA 1-559) (His tag)**

## Overview

Quantity:	1 mg
Target:	Glycerol Kinase (GK)
Protein Characteristics:	AA 1-559
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Glycerol Kinase protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat GK Protein expressed in mammalien cells.
Sequence:	MAASKKAVLG PLVGAVDQGT SSTRFLVFNS KTAELLSHHQ VEIKQEFPRE GWVEQDPKEI LHSVYECIEK TCEKLGQLNI DISNIKAIGV SNQRETTVVW DKITGEPLYN AVVWLDLRTQ STVESLSKRI PGNNNFVSK TGLPLSTYFS AVKLRWLLDN VRKVQKAVEE KRALFGTIDS WLIWSLTGGV NGGVHCTDVT NASRTMLFNI HSLEWDKQLC EFFGIPMEIL PNVRSSSEIY GLMKISHSVK AGALEGVPIS GCLGDQSAAL VGQMCQFQIGQ AKNTYGTGCF LLCNTGHKCV FSDHGLLTTV AYKLRDQKPV YYALEGSVAI AGAVIRWLRD NLGIIKTSEE IEKLAKEVGT SYGCYFVPAF SGLYAPYWEP SARGIICGLT QFTNKCHIAF AALEAVCFQT REILDAMNRD CGIPLSHLQV DGGMTSNKIL MQLQADILYI PVKPSPMPET TALGAAMAAG AAEGVGVWSL EPEDLSAVTM ERFEPQINAE ESEIRYSTWK KAVMKSMGWV TTQSPESGDP SIFCSLPLGF FIVSSMVMLI GARYISGIP <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make</b>

## Product Details

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**another tag necessary. In case you have a special request, please contact us.**

### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

### Grade:

custom-made

## Target Details

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### Target:

Glycerol Kinase (GK)

### Alternative Name:

Glycerol Kinase ([GK Products](#))

### Background:

Glycerol kinase (Glycerokinase) (EC 2.7.1.30) (ATP:glycerol 3-phosphotransferase),FUNCTION: Kinase that plays a key role in glycerol metabolism, catalyzing its phosphorylation to produce sn-glycerol 3-phosphate. Sn-glycerol 3-phosphate is a crucial intermediate in various metabolic pathways, such as the synthesis of glycerolipids and triglycerides, glycogenesis, glycolysis and gluconeogenesis. {ECO:0000269|PubMed:15845384, ECO:0000269|PubMed:37021775}.

### Molecular Weight:

61.2 kDa

### UniProt:

[P32189](#)

## Application Details

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### Application Notes:

In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a

## Application Details

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guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months