

Product datasheet for PH313688

Glycerol kinase (GK) (NM_000167) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GK MS Standard C13 and N15-labeled recombinant protein (NP_000158)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC213688
Predicted MW:	57.3 kDa
Protein Sequence:	>RC213688 representing NM_000167 Red=Cloning site Green=Tags(s)

MAASKKAVLGPLVGAVDQGTSSSTRFLVFNASKTAELLSHHQVEIKQEFREGWVEQDPKEILHSVYECIEK
TCEKLGQLNIDISNIKAIGVSNQRETTVVWDKITGEPLYNVAVVWDLRTQSTVESLSKRIPGNNNFVSKS
TGLPLSTYFSAVKLRWLLDNVRKVQKAVEEKRALFGTIDSWLIWLSLGGVNGGVHCTDVTNASRTMLFNI
HSLEWDKQLCEFFGIPMEILPNVRSSEIYGLMKAGALEGVPIISGCLGDQSAALVGQMCQFQIGQAKNTYG
TGCFLCNTGHKCVFSDHGLLTTVAYKLRDQKPVVYALEGSVAIAGAVIRWLRDNLGIIKTSEEIEKLAK
EVGTSYGCYFVPAFSGLYAPYWEPSARGIICGLTQFTNKCHIAFAALEAVCFQTREILDAMNRDCGIPLS
HLQVDGGMTSNKILMQLQADILYIPVVKPSMPETTALGAAMAAGAAEGVGVWSLEPEDLSAVTMERFEPQ
INAESEIRYSTWKKAVMKSMGWTTQSPESGIP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000158</u>
RefSeq Size:	3573
RefSeq ORF:	1572



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Synonyms: GK1; GKD

Locus ID: 2710

UniProt ID: [P32189](#), [B4DH54](#)

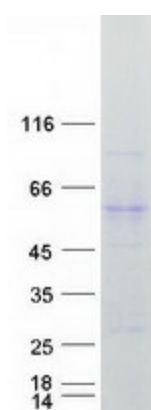
Cytogenetics: Xp21.2

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# [TP313688]). The protein was produced from HEK293T cells transfected with GK cDNA clone (Cat# [RC213688]) using MegaTran 2.0 (Cat# [TT210002]).