

## Product datasheet for PH314133

### DGKG (NM\_001080745) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	DGKG MS Standard C13 and N15-labeled recombinant protein (NP_001074214)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC214133
Predicted MW:	84.5 kDa
Protein Sequence:	>RC214133 protein sequence Red=Cloning site Green=Tags(s)

MGEERWVSLTPEEFDQLQKYSEYSSKKIKDALTEFNEGSLKQYDPHEPISYDVFKLFMRAYLEVLPQP  
LSTHLFLAFSQKPRHETSDHPTEGASNSEANSADTNIQNADNATKADEACAPDTESNMAEKQAPAEDQVA  
ASPLEPPVPRSSSESPVYVKDVCYLSLLETGRPQDKLEFMFRLYDSDEGLLDQAEMDCIVNQLHI  
AQYLEWDPTELRLPKEMLQGMVDYDRDGFVSLQEWVHGGMTTIPLLVLLGMDSDSGKGDGRHAWTMKHF  
KPTYCNFCHIMLMGVRKQGLCCTYCKYTHERCVSKNIPGCVKTYSAKRSGEFHRKCELSTLCDGGELR  
DHILLPTSIKPIITRDRPGEKSDGCVSAKDELVMQYKIIPTPGTHPLLVLVNPKSGGRQGERILRKFHYLL  
NPKQVFNLDNGGPTPLNFRDTPDFRVLACGGDGTGVWILDCIDKANFAKHPPVAVLPLGTGNDLARCL  
RWGGGYEGGSLTKILKDIEQSPLVMLDRWHLEVIPREEVENDQVPYSIMNMYFSIGVDASIAHRFHVMR  
EKHPEKFNRMKNLWYFEFGTSETFAATCKKLHDHIELECDGVDLSNIFLEGIAILNIPSMYGGTNL  
WGENKKNRAVIRESRKGVTDPKELKFCVQDLSDQLLEVVGLEGAMEMGQIYTGLKSAGRRLAQCASVTIR  
TNKLLPMQVDGEPWMPQCCTIKITHKNQAPMMGPPQKSSFFSLRRKRSRSD

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<a href="#">NP_001074214</a>



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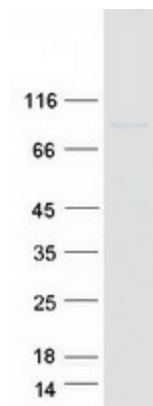
RefSeq Size:	5701
RefSeq ORF:	2256
Synonyms:	DAGK3; DGK-GAMMA
Locus ID:	1608
UniProt ID:	<a href="#">P49619</a> , <a href="#">P49619-3</a>
Cytogenetics:	3q27.2-q27.3

**Summary:** This gene encodes an enzyme that is a member of the type I subfamily of diacylglycerol kinases, which are involved in lipid metabolism. These enzymes generate phosphatidic acid by catalyzing the phosphorylation of diacylglycerol, a fundamental lipid second messenger that activates numerous proteins, including protein kinase C isoforms, Ras guanyl nucleotide-releasing proteins and some transient receptor potential channels. Diacylglycerol kinase gamma has been implicated in cell cycle regulation and in the negative regulation of macrophage differentiation in leukemia cells. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome

**Protein Pathways:** Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system

### Product images:



Coomassie blue staining of purified DGKG protein (Cat# [TP314133]). The protein was produced from HEK293T cells transfected with DGKG cDNA clone (Cat# [RC214133]) using MegaTran 2.0 (Cat# [TT210002]).