

## Product datasheet for PH322395

### DGKA (NM\_001345) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	DGKA MS Standard C13 and N15-labeled recombinant protein (NP_001336)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222395
Predicted MW:	82.5 kDa
Protein Sequence:	>RC222395 representing NM_001345 Red=Cloning site Green=Tags(s)

MAKERGLISPSDFAQLQKYMESTKKVSDVLKLFEDGEMAKYVQGDIAIGYEGFQQFLKIYLEVDNVPRL  
SLALFQSFETGHCLNETNVTKDVVCLNDVSCYFSLLEGGRPEDKLEFTFKLYDTRNGILDSSEVDKIIIL  
QMMRVAEYLDWDVSELRPILQEMMKEIDYDGSVSVQAEWVRAGATTVPLLVLGLEM TLKDDGQHMWRP  
KRFPRPVYCNLCESIGLGKQGLSCNLCKYTVHDQCAMKALPCEVSTYAKSRKDIGVQSHVWVRGGCESG  
RCDRCQKKIRIYHSLTGLHCVWCHLEIHDDCLQAVGHECDCGLLRDHILPPSSIYPSVLASGPDRKNSKT  
SQKTMDLNLSTSEALRIDVPNTHPLL VFNPKSGGKQQRVLWKFQYILNPRQVFNLLKDGPEIGLRL  
FKDVPDSRILVCGDGTGVWILETIDKANLPVLPVAVLPLGTGNDLARCLRWGGYEGQNLAKILKDL  
MSKVHMDRWSVEVIPQQTTEEKSDPVFQIINNYFSIGVDASIAHRFHIMREKYPEKFN SRMKNKLWYFE  
FATSEIFSTCKLEESLVEICGKPLDL SNLSLEGI AVLNIPSMHGGSNLWGDTRRPHGDIYGINQALG  
ATAKVITDPDILKTCVPLDSDKRLEVVGLEGAIE MGQIYTKLKNAGRRLAKCSEITFH TTKLPMQIDGE  
PWMQTPCTIKITHKNQPMPLMGPPRSTNFFGFLS

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_001336</a>



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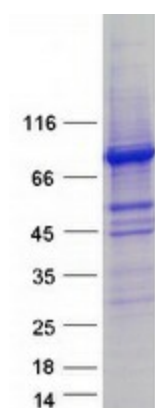
RefSeq Size:	2756
RefSeq ORF:	2205
Synonyms:	DAGK; DAGK1; DGK-alpha
Locus ID:	1606
UniProt ID:	<a href="#">P23743</a> , <a href="#">A0A024RB23</a>
Cytogenetics:	12q13.2

**Summary:** The protein encoded by this gene belongs to the eukaryotic diacylglycerol kinase family. It acts as a modulator that competes with protein kinase C for the second messenger diacylglycerol in intracellular signaling pathways. It also plays an important role in the resynthesis of phosphatidylinositols and phosphorylating diacylglycerol to phosphatidic acid. Several transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Apr 2017]

**Protein Families:** Druggable Genome

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

### Product images:



Coomassie blue staining of purified DGKA protein (Cat# [TP322395]). The protein was produced from HEK293T cells transfected with DGKA cDNA clone (Cat# [RC222395]) using MegaTran 2.0 (Cat# [TT210002]).