Recombinant Full Length Human DGKA Protein, C-Flag-tagged

Cat. No. DGKA-627HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DGKA Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	82.5 kDa
AA Sequence	MAKERGLISPSDFAQLQKYMEYSTKKVSDVLKLFEDGEMAKYVQGDAIGYEGFQQF LKIYLEVDNVPRHL SLALFQSFETGHCLNETNVTKDVVCLNDVSCYFSLLEGGRPED KLEFTFKLYDTDRNGILDSSEVDKIIL QMMRVAEYLDWDVSELRPILQEMMKEIDYD GSGSVSQAEWVRAGATTVPLLVLLGLEMTLKDDGQHMWRP KRFPRPVYCNLCES SIGLGKQGLSCNLCKYTVHDQCAMKALPCEVSTYAKSRKDIGVQSHVWVRGGCES G RCDRCQKKIRIYHSLTGLHCVWCHLEIHDDCLQAVGHECDCGLLRDHILPPSSIYP SVLASGPDRKNSKT SQKTMDDLNLSTSEALRIDPVPNTHPLLVFVNPKSGGKQGQR

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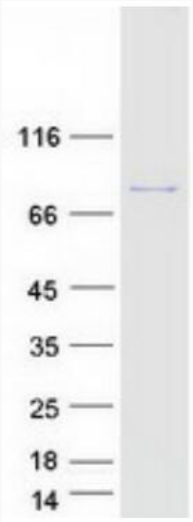
	VLWKFQYILNPRQVFNLLKDGPEIGLRL FKDVPDSRILVCGGDGTVGWILETIDKANL PVLPPVAVLPLGTGNDLARCLRWGGGYEGQNLAKILKDLE MSKVVHMDRWSVEVI PQQTEEKSDPVPFQIINNYFSIGVDASIAHRFHIMREKYPEKFNSRMKNKLWYFE FA TSESIFSTCKKLEESLTVEICGKPLDLSNLSLEGIAVLNIPSMHGGSNLWGDTRRPHG DIYGINQALG ATAKVITDPDILKTCVPDLSDKRLEVVGLEGAIEMGQIYTKLKNAGRRL AKCSEITFHTTKTLPMQIDGE PWMQTPCTIKITHKNQMPMLMGPPPRSTNFFGFLSTRTRPLEQKLISEEDLAANDIL DYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system
Full Length	Full L.

GENE INFORMATION

Gene Name	DGKA diacylglycerol kinase alpha [Homo sapiens (human)]

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Official Symbol	DGKA
Synonyms	DAGK; DAGK1; DGK-alpha
Gene ID	1606
mRNA Refseq	NM_201444.3
Protein Refseq	NP_958852.1
MIM	125855
UniProt ID	P23743



Coomassie blue staining of purified DGKA protein.

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