

Recombinant Human DGKA

Cat. No. DGKA-26771TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human DGKA with N terminal proprietary tag; Predicted MWt 106.96 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	735 amino acids
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. Alternative splicing occurs at this locus and four transcript variants encoding the same protein have been identified.
Molecular Weight	106.960kDa inclusive of tags
Tissue specificity	Lymphocytes and oligodendroglial cells.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MAKERGLISPSDFAQLQKYMEYSTKKVSDVLKLFEDGEMA KYVQGDAIGYEGFQQF LKIYLEVDNVPRHLSLALFQSFET GHCLNETNVT KDVVCLNDVSCYFSLLEGGRPED KLEFTFK LYDTRNGILDSSEVDKILQMMRVAEYLDWDVSELRPIL QEMMKEIDYD GSGSVSQA EWVRAGATTVP LLVLLGLEMTL KDDGQHMWRPKRFPRPVYCNLCES SIGLGKQGLSCNLCKY TVHDQCAMKALPCEVSTYAKSRKDIGVQSHVWVRGGCES G RCDRCQKKIRIYHSLTGLHCVWCHLEIHDDCLQAVGHECD CGLLRDHILPPSSIYP SVLASGPDRKNSKTSQKTMDLNL STSEALRIDPVPNTHPLLVFVNP KSGGKQGQR VLWKFQYI LNPRQVFNLLKDGPEIGLRLFKDVPDSRILVCGGDGTVGW ILETIDKAN LPVLPPVAVLPLGTGNDLARCLRWGGGYEGQ NLAKILKDLEMSKVVMHMDRWSVEVI PQQTEEKSDPVPFQI INNYFSIGVDASIAHRFYIMREKYPEKFNSRMKNKLWYFE FA TSESIFSTCKKLEESLTVEICGKPLDLSNLSLEGIAVL NIPSMHGGSNLWGDTRRPHG DIYGINQALGATAKVITDPD ILKTCVPDLSDKRLEVVGLEGA IEMGQIYTKLKNAGRRL A KCSEITFH TTKTLP MQIDGEPWVQTPCTIKITHKNQMPML MGPPPRSTNFFGFLS
Sequence Similarities	Belongs to the eukaryotic diacylglycerol kinase family.Contains 1 DAGKc domain.Contains 2 EF-hand domains.Contains 2 phorbol-ester/DAG-type zinc fingers.
GENE INFORMATION	
Gene Name	DGKA diacylglycerol kinase, alpha 80kDa [Homo sapiens]
Official Symbol	DGKA
Synonyms	DGKA; diacylglycerol kinase, alpha 80kDa; DAGK, DAGK1, diacylglycerol kinase, alpha (80kD); diacylglycerol kinase alpha; DGK alpha;

Gene ID	1606
mRNA Refseq	NM_001345
Protein Refseq	NP_001336
MIM	125855
Uniprot ID	P23743
Chromosome Location	12q13.3
Pathway	Calcineurin-regulated NFAT-dependent transcription in lymphocytes, organism-specific biosystem; Effects of PIP2 hydrolysis, organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Glycerolipid metabolism, organism-specific biosystem;
Function	ATP binding; calcium ion binding; diacylglycerol kinase activity; nucleotide binding; phospholipid binding;