

Recombinant Human DGKI Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DGKI-5055H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DGKI MS Standard C13 and N15-labeled recombinant protein (NP_004708) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene is a member of the type IV diacylglycerol kinase subfamily. Diacylglycerol kinases regulate the intracellular concentration of diacylglycerol through its phosphorylation, producing phosphatidic acid. The specific role of the enzyme encoded by this gene is undetermined, however, it may play a crucial role in the production of phosphatidic acid in the retina or in recessive forms of retinal degeneration.
Molecular Mass	116.8 kDa
AA Sequence	MDAAGRGCHLLPLPAARGPARAPAAAAAASPPGPCSGAACAPSAAAGAGAMNP SSSAGEEKGATGGSSSSGSGAGSCCLGAEGGADPRGAGSAAAAGAAALDEPAAA GQKEKDEALEEKLRLNLTFRKQVSYRKAISRAGLQHLAPAHPLSLPVANGPAKEPRAT LDWSENAVNGEHLWLETNVSGDLCYLGEENCQVRFKSAALRRKCAVCKIVVHTACI EQLEKINFRCKPTFREGGSRSPRENFVRHHWVHRRRQEGKCKQCGKGFQQKFSS HSKEIVAISCSWCKQAFHNKVTFCMLHHIEEPCSLGAHA AVIVPPTWIIKVKKPQNSL KASNRKKKRTSFKRKASKRGMEQENKGRPFVIKPISSPLMKPLLVFVNPKSGGNQG

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TKVLQMFMWYLNPRQVFDLSQEGPKDALEYRKVPNLRILACGGDGTVGWILSILDE
 LQLSPQPPVGVLPGLGTGNDLARTLNWGGGGYTDEPVSKILCQVEDGTVVQLDRWNL
 HVERNPDLPPEELEDGVCKLPLNVFNNYFSLGFDAHVTFEFHESREANPEKFNSRF
 RNKMFYAGAAFSDFLQRSSRDLSKHVKVVCDDGTDLTPKIQELKFQCIVFLNIPRYCA
 GTMPWGNPGDHHDFEPQRHDDGYIEVIGFTMASLAALQVGGHGERLHQCREVMML
 TYKSIPMQVDGEPCLAPAMIRISLRNQANMVQKSKRRTSMPLLNDPQSVPDRLRIR
 VNKISLQDYEGFHYDKEKLREASISDWLRTIAGELVQSFGAIPGLVVRGDCDLETC
 RMYIDRLQEDLQSVSSGSQRVHYQDHETSFPRLSAQRLSPRWCFLDDRSQEHLH
 FVMEISQDEIFILDPDMVVSQPAGTPPGMPDLVVEQASGISDWWNPALRKRLSDS
 GLGMIAPYYEDSDLKDLSHSRVLQSPVSSDHAILQAVIAGDLMKLIESYKNGGSLLI
 QGPDHCSLLHYAAKTGNGEIVKYILDHGPSELLDMADSETGETALHKAACQRNRAV
 CQLLDAGASLRKTD SKGKTPQERAQQAGDPDLAAYLESRQNYKVIGHEDLETAVT
 RTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name DGKI diacylglycerol kinase iota [Homo sapiens (human)]

Official Symbol DGKI

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Synonyms	DGKI; diacylglycerol kinase, iota; diacylglycerol kinase iota; DGK IOTA; DAG kinase iota; diglyceride kinase iota; DGK-IOTA;
Gene ID	9162
mRNA Refseq	NM_004717
Protein Refseq	NP_004708
MIM	604072
UniProt ID	O75912

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