

# 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
EQLEKINFRCKPTFREGGSRSPRENFVRHHWVHRRRQEGKCKQCGKGFQQKFSF
HSKEIVAISCSWCKQAFHNKVTFCMLHHIEEPCSLGAHA AVIVPPTWIIKVKKPQNSL
KASNRKKKRTSFKRKASKRGMEQENKGRPFVIKPISSPLMKPLLVFVNPKSGGNQG
```

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TKVLQMFMWYLNPRQVFDLSQEGPKDALELYRKVPNLRILACGGDGTVGWILSILDE  
 LQLSPQPPVGVLPGLGTGNDLARTLNWGGGYTDEPVSKILCQVEDGTVVQLDRWNL  
 HVERNPDLPPEELEDGVCKLPLNVFNNYFSLGFDAHVTFEFHESREANPEKFNSRF  
 RNKMFYAGAAFSDFLQRSSRDLSKHVKKVCDGTDLTPKIQELKFQCIVFLNIPRYCA  
 GTMPWGNPGDHHDFEPQRHDDGYIEVIGFTMASLAALQVGGHGERLHQCREVMLL  
 TYKSIPMQVDGEPCLAPAMIRISLRNQNANMVQKSKRRTSMPLLNDPQSVPRDLRIR  
 VNKISLQDYEGFHYDKEKLREASISDWLRTIAGELVQSFGAIPGLVVRGDCDLETC  
 RMYIDRLQEDLQSVSSGSQRVHYQDHETSFPRALSAQRLSPRWCFLDDRSQEHLH  
 FVMEISQDEIFILDPDMVVSQPAGTPPGMPDLVVEQASGISDWWNPALRKRMLSDS  
 GLGMIAPYYEDSDLKDLSHSRVLQSPVSSDHAILQAVIAGDLMKLIESYKNGGSLLI  
 QGPDHCSLLHYAAKTGNGEIVKYILDHGPSELLDMADSETGETALHKAACQRNRAV  
 CQLLVDAGASLRKTDSKGTKPQERAQQAGDPDLAAYLESRQNYKVIGHEDLETAVT  
 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 \(human\) \]](#)

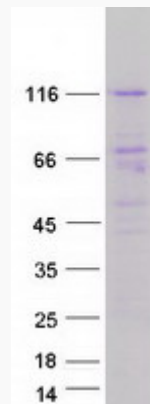
**Official Symbol** [DGKI](#)

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

**SDS-PAGE**

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