

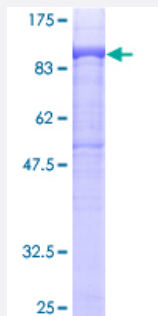
Full-Length

# DGKA (Human) Recombinant Protein (P01)

Catalog # H00001606-P01

Size 25 ug, 10 ug

## Applications



## Specification

### Product Description

Human DGKA full-length ORF ( AAH31870, 1 a.a. - 735 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MAKERGLISPSDFAQLQKYMESTKKVSDVLKLFEDGEMAKYVQGDAIGYEGFQQFLKMYLEVDN  
VPRHLSLALFQSFETGHCLNETNVT KD VVCLNDVSCYFSLLEGGRPEDKLEFTFKLYDTRNGIL  
DSSEVDKIIQMMRVAEYLDWDVSELRPILQEMMKEIDYDGGSGSVSQA EWVRAGATTVPLL VLLG  
LEMTLKDDGQHMWRPKRFPRPVYCNLCESSIGLGKQGLSCNLCKYTVHDQCAMKALPCEVSTY  
AKSRKDIGVQSHVWVRGGCESGRCDRCQKKIRYHSLTGLHCVWCHLEIHDDCLQAVGHECDCG  
LLRDHILPPSSIYPSVLASGPDRKNSKTSQKTMDLNLSTSEALRIDPVPNTHPLLVFVNP KSGGK  
QQQRVLWK FQYILNPRQVFNLLKDGPEIGLRLFKDVPDSRILVCGGDGTVGWILETIDKANLPVLP  
PVAVLPLGTGNDLARCLRWGGGYEGQNLAKILKDLEMSKV VHM DRWSVEVIPQQTEEKSDPVP  
FQIINNYFSIGVDASIAHRFYIMREKYPEKFNSRMKNKLWYFEFATSESI FSTCKKLEESLTVEICGKP  
LDLSNLSLEGIAVLNIPSMHGGSNLWGDTRRPHGDIYGINQALGATAKVITDPDILKTCVPDLSDKRL  
EVVGLEGAIE MGQYTKLKNAGRRLAKCSEITFHTTKTLP MQIDGEPWWQTPCTIKITHKNQMPMLM  
GPPPRSTNFFGFLS

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

106.37

### Preparation Method

[in vitro wheat germ expression system](#)

### Purification

Glutathione Sepharose 4 Fast Flow

|                         |                                                                          |
|-------------------------|--------------------------------------------------------------------------|
| Quality Control Testing | 12.5% SDS-PAGE Stained with Coomassie Blue.                              |
| Storage Buffer          | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |
| Storage Instruction     | Store at -80°C. Aliquot to avoid repeated freezing and thawing.          |
| Note                    | Best use within three months from the date of receipt of this protein.   |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — DGKA

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">1606</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| GeneBank Accession# | <a href="#">BC031870</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Protein Accession#  | <a href="#">AAH31870</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Gene Name           | DGKA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene Alias          | DAGK, DAGK1, DGK-alpha, MGC12821, MGC42356                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gene Description    | diacylglycerol kinase, alpha 80kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Omim ID             | <a href="#">125855</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene 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 intra cellular signaling pathways. It also plays an important role in the resynthesis of phosphatidylinositol and phosphorylating diacylglycerol to phosphatidic acid. Alternative splicing occurs at this locus and four transcript variants encoding the same protein have been identified. [provided by RefSeq] |
| Other Designations  | diacylglycerol kinase alpha diacylglycerol kinase, alpha (80kD)                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Pathway

- [Glycerolipid metabolism](#)
- [Glycerophospholipid metabolism](#)
- [Metabolic pathways](#)
- [Phosphatidylinositol signaling system](#)