

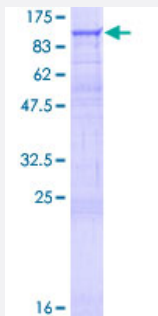
Full-Length

DGKG (Human) Recombinant Protein (P01)

Catalog # H00001608-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human DGKG full-length ORF (NP_001074213.1, 1 a.a. - 766 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MGEERWVSLTPEEFDQLQKYSEYSSKKIKDALTEFNEGGSLKQYDPHEPISYDVFKLFMRAYLEV
DLPQPLSTHLFLAFSQKPRHETSDHPTGASNSEANSADTNIQNADNATKADEACAPDTESNMA
EKQAPAEQVAATPLEPPVPRSSSESPPVYLKDVVCYLSLLETGRPQDKLEFMFRLYDSDENG
LLDQAEMDCVNLHIAQYLEWDPTLRPILKEMLQGM DYDRDGFVSLQEWVHGGMTIPLLVL
LGMDDSGSKGDGRHAWTMKHFKKPTYCNFCHIMLMGVRKQGLCCTYCKYTVHERCVSRNIPGC
VKTYSAKRSGEVMQHAWEVGNSSVKCDRCHKSIKCYQSVTARHCVWCRMTFHRKCELSTLC
DGGELRDHILLPTSICPITDRPGEKSDGCVSAKGELVMQYKIIPGTHPLLVLNPKSGGRQGER
LNFFRDTPDFRVLACGGDGTVGWILDCIDKANFAKHPPVAVLPLGTGNDLARCLRWGGGYEGGS
LTKILKDIEQSPLVMLDRWHLEVIPREEVENDQVPYSIMNNYFSIGVDASIAHRFHMREKHPEKF
NSRMKNKLWYFEFGTSETFAATCKKLHDHIELECDGVGVDLNIFLEGAILNIPSMYGGTNLWGEN
KKNRAVIRESRKGVTDPKELKFCVQDLSQDQLLEVVGLEGAMEMGQYITGLKSAGRRLAQCASVTI
RTNKL LPMQVDGEPWMQPCCTIKITHKNQAPMMMGPQKSSFFSLRRKSRSKD

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

112.7

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 — DGKG

Entrez GeneID	1608
GeneBank Accession#	NM_001080744.1
Protein Accession#	NP_001074213.1
Gene Name	DGKG
Gene Alias	DAGK3, DGK-GAMMA, MGC104993, MGC133330
Gene Description	diacylglycerol kinase, gamma 90kDa
Omim ID	601854
Gene Ontology	Hyperlink
Gene Summary	This gene encodes an enzyme that is a member of the type I subfamily of diacylglycerol kinases, which are involved in lipid metabolism. These enzymes generate phosphatidic acid by catalyzing the phosphorylation of diacylglycerol, a fundamental lipid second messenger that activates numerous proteins, including protein kinase C isoforms, Ras guanyl nucleotide-releasing proteins and some transient receptor potential channels. Diacylglycerol kinase gamma has been implicated in cell cycle regulation and in the negative regulation of macrophage differentiation in leukemia cells. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

DAG kinase gamma|diacylglycerol kinase gamma|diacylglycerol kinase gamma|diglyceride kinase gamma

Pathway

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

Disease

- [Asthma](#)
- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Obesity](#)
- [Tobacco Use Disorder](#)