

## Recombinant Human DGKG protein, His & T7-tagged

Cat. No. DGKG-1361H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human DGKG aa. (Ile451~Gln698 (Accession # P49619) fused with N-terminal His & T7 tag was produced in E. coli cells.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Ile451~Gln698
<b>Description</b>	<p>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.</p>
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 31.8kDa.
<b>Endotoxin</b>	<1.0EU per 1g (determined by the LAL method)

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<b>Purity</b>	>95%
<b>Characteristic</b>	The isoelectric point is 7.3.
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP.
<b>Stability</b>	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Storage buffer</b>	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
<b>Reconstitution</b>	Reconstitute in sterile ddH <sub>2</sub> O.

## GENE INFORMATION

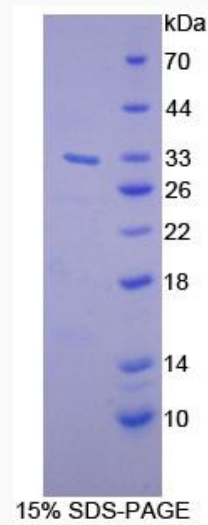
<b>Gene Name</b>	DGKG diacylglycerol kinase gamma [ Homo sapiens (human) ]
<b>Official Symbol</b>	DGKG
<b>Synonyms</b>	DGKG; diacylglycerol kinase gamma; DAGK3; DGK-GAMMA; diacylglycerol kinase gamma; DAG kinase gamma; diacylglycerol kinase, gamma 90kDa; diacylglycerol kinase gamma; diglyceride kinase gamma

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<b>Gene ID</b>	1608
<b>mRNA Refseq</b>	NM_001080744.1
<b>Protein Refseq</b>	NP_001074213.1
<b>UniProt ID</b>	P49619

**SDS-PAGE**

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