

Recombinant Human DGKG protein, His & T7-tagged

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

SPECIFICATION

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

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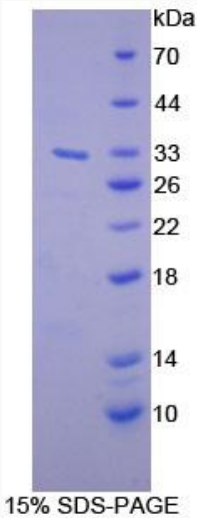
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Purity	>95%
Characteristic	The isoelectric point is 7.3.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, 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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH ₂ O.
GENE INFORMATION	
Gene Name	DGKG diacylglycerol kinase gamma [Homo sapiens (human)]
Official Symbol	DGKG
Synonyms	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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Gene ID	1608
mRNA Refseq	NM_001080744.1
Protein Refseq	NP_001074213.1
UniProt ID	P49619
SDS-PAGE	 15% SDS-PAGE