Recombinant Active Human DGKG Protein, His-tagged

Cat. No. DGKG-15H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human isoform 1 of Diacylglycerol kinase gamma (DGKG) (10-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag.
Species	Human
Source	Insect Cells
ProteinLength	10-end a.a.
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.
Molecular Mass	Approx 97 kDa
Purity	> 90%
Stability	One year at -70 centigrade from data of shipment.

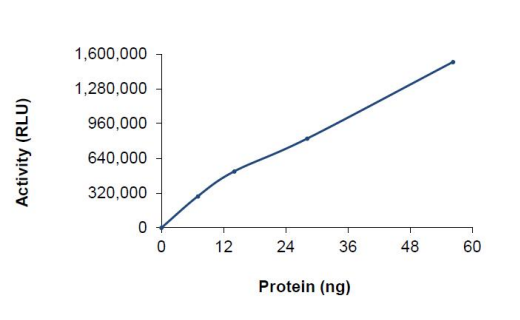
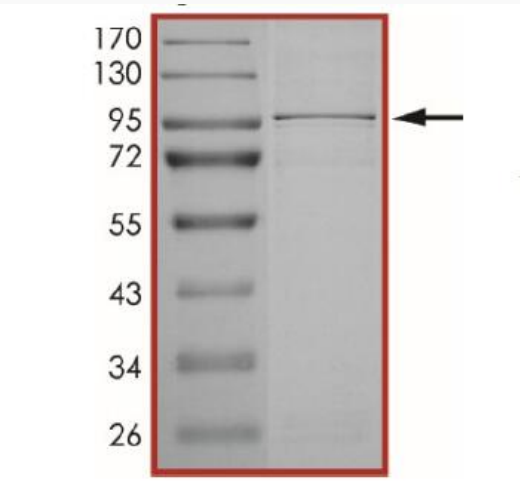
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Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.05 μg/μL
Storage Buffer	Recombinant protein stored in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.25 mM DTT, 25% glycerol.
Shipping	Dry ice

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; diacylglyerol kinase gamma; diglyceride kinase gamma; EC 2.7.1.107
Gene ID	1608
mRNA Refseq	NM_001346
Protein Refseq	NP_001337
MIM	601854
UniProt ID	P49619

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Specific Activity	 The specific activity of DGKG was determined to be 122 nmol/min/mg as per activity assay protocol.
Purity	 The purity of DGKG was determined to be > 90 % by densitometry.

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