

Recombinant Active Human DGKG Protein, His-tagged

Cat. No. DGKG-13H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length isoform 1 of human Diacylglycerol kinase gamma (DGKG) was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag.
Species	Human
Source	Insect Cells
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	97 kDa
Purity	> 90%
Stability	One year at -70 centigrade from data of shipment.
Storage	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most

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favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Concentration 0.1 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; diacylglycerol kinase gamma; diglyceride kinase gamma; EC 2.7.1.107

Gene ID 1608

mRNA Refseq NM_001346

Protein Refseq NP_001337

MIM 601854

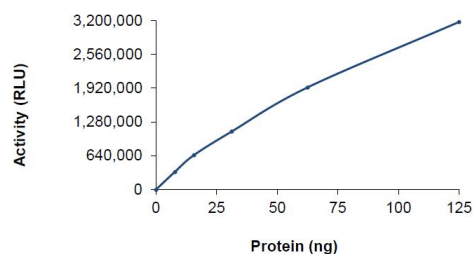
UniProt ID P49619

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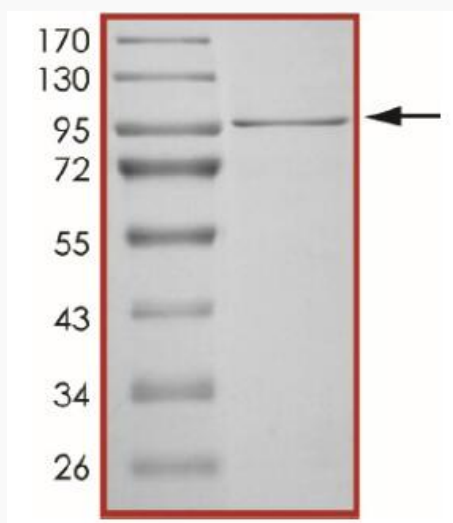
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Specific Activity



The specific activity of DGKG was determined to be 131 nmol/min/mg as per activity assay protocol.

Purity



The purity of DGKG was determined to be > 90 % by densitometry.