

Active Recombinant Human DGKA protein, GST-tagged

Cat. No. DGKA-181H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DGKA fused with GST tag at N-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
Description	Diacylglycerol kinase alpha (DAG kinase alpha) is a member of the eukaryotic diacylglycerol kinase family. Upon cell stimulation converts the second messenger diacylglycerol into phosphatidate, initiating the resynthesis of phosphatidylinositols and attenuating protein kinase C activity. Involved in hepatocellular carcinoma progression through regulation of the Ras/Raf/MEK/ERK pathway. The DGKα/atypical PKC/β1 integrin signaling pathway is required for matrix invasion of breast carcinoma cells.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	3000 nmol/min/mg
Molecular Mass	105 kDa
Purity	>90%
Applications	Kinase Assay

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Stability	1 year at -70 centigrade from the date 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 favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1µg/µl
GENE INFORMATION	
Gene Name	DGKA diacylglycerol kinase, alpha 80kDa [Homo sapiens]
Official Symbol	DGKA
Synonyms	DGKA; diacylglycerol kinase, alpha 80kDa; DAGK, DAGK1, diacylglycerol kinase, alpha (80kD); diacylglycerol kinase alpha; DGK alpha; DAG kinase alpha; diglyceride kinase alpha; 80 kDa diacylglycerol kinase; DAGK; DAGK1; DGK-alpha; MGC12821; MGC42356;
Gene ID	1606
mRNA Refseq	NM_001345
Protein Refseq	NP_001336
MIM	125855
UniProt ID	P23743
Chromosome Location	12q13.3

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Pathway

Calcineurin-regulated NFAT-dependent transcription in lymphocytes, organism-specific biosystem; Effects of PIP2 hydrolysis, organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Glycerolipid metabolism, organism-specific biosystem; Glycerolipid metabolism, conserved biosystem; Glycerophospholipid metabolism, organism-specific biosystem;

Function

ATP binding; calcium ion binding; diacylglycerol kinase activity; nucleotide binding; phospholipid binding; transferase activity;

