

## Recombinant Human DGKB, His-tagged

Cat. No. DGKB-11954H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human DGKB protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.

**Species** Human

**Source** E.coli

**ProteinLength** 30-140a.a.

**Description** Diacylglycerol kinases (DGKs) are regulators of the intracellular concentration of the second messenger diacylglycerol (DAG) and thus play a key role in cellular processes. Nine mammalian isotypes have been identified, which are encoded by separate genes. Mammalian DGK isozymes contain a conserved catalytic (kinase) domain and a cysteine-rich domain (CRD). The protein encoded by this gene is a diacylglycerol kinase, beta isotype. Two alternatively spliced transcript variants have been found for this gene.

**Storage** The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

**Storage Buffer** 1M PBS (58mM Na<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

### GENE INFORMATION

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<b>Gene Name</b>	DGKB diacylglycerol kinase, beta 90kDa [ Homo sapiens ]
<b>Official Symbol</b>	DGKB
<b>Synonyms</b>	DGKB; diacylglycerol kinase, beta 90kDa; DAGK2, diacylglycerol kinase, beta (90kD); diacylglycerol kinase beta; DGK; DGK BETA; KIAA0718; DAG kinase beta; diglyceride kinase beta; 90 kDa diacylglycerol kinase; DAGK2; DGK-BETA;
<b>Gene ID</b>	1607
<b>mRNA Refseq</b>	NM_004080
<b>Protein Refseq</b>	NP_004071
<b>MIM</b>	604070
<b>UniProt ID</b>	Q9Y6T7
<b>Chromosome Location</b>	7p21.2
<b>Pathway</b>	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; Glycerophospholipid metabolism, conserved biosystem;
<b>Function</b>	ATP binding; calcium ion binding; diacylglycerol kinase activity; nucleotide binding; transferase activity;

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