

Recombinant Human DGKB Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DGKB-4338H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DGKB MS Standard C13 and N15-labeled recombinant protein (NP_004071) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	90.4 kDa
AA Sequence	MTNQEKWAHLSPSEFSQLQKYAEYSTKKLKDVLEEFHGNGLAKYNPEGKQDILNQ TIDFEGFKLFMKTFLAELPDDFTAHLFMSFSNKFPHSSPMVKS KPALLSGGLRMNK GAITPPRTTSPANTCSPEVIHLKDIVCYLSLLERGRPEDKLEFMFRLYD TDGNGFLDS SELENIISQMMHVAEYLEWDVTELNPILHEMMEEIDYDHDGTVSLEEWIQGGMTTIPL LVLLGLENNVKDDGQHVWRLKHFNKPAYCNLCLNMLIGVGKQGLCCSFCKYTVHER CVARAPPSCIPTYVKS KRNTDVMHHYWVEGNCPTKCDKCHKTVKCYQGLTGLHCV

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WCQITLHNKCASHLKPECDCGPLKDHILPPTTICPVVLQTLPTSGVSVPEERQSTVKK
 EKSGSQPNKVIDKNKMQRANSVTVDGQGLQVTPVPGTHPLLVFVNPKSGGKQGE
 RIYRKQYLLNPRQVYSLSGNGPMPGLNFFRDVPDFRVLACGGDGTVGWVLDCKE
 ANVGKHPPVAILPLGTGNDLARCLRWGGGYEGENLMKILKDIENTEIMLDRWKFEV
 IPNDKDEKGDVPYYSIINNYFSIGVDASIAHRFHIMREKHPEKFNSRMKNKFWYFEFG
 TSETFSATCKKLHESVEIECDGVQIDLINISLEGAILNIPSMHGGSNLWGESKKRRSH
 RRIEKKGSDKRTTVTDAKELKFASQDLSDQLLEVVGLEGAMEMGQIYTGLKSAGRRL
 AQCSCVVIRTSKSLPMQIDGEPWMQTPCTIKITHKNQAPMLMGPPPKTGLFCSLVKR
 TRNRSKETRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name DGKB diacylglycerol kinase beta [Homo sapiens (human)]

Official Symbol DGKB

Synonyms 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;

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Gene ID	1607
mRNA Refseq	NM_004080
Protein Refseq	NP_004071
MIM	604070
UniProt ID	Q9Y6T7
SDS-PAGE	