DGK Beta Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	DGK beta (DGKB), Blocking Peptide
Full Product Name	DGK beta Blocking Peptide
Product Gene Name	DGKB blocking peptide
Product Synonym Names	DAGK2; KIAA0718; Diacylglycerol kinase beta; DAG kinase beta; 90 kDa diacylglycerol kinase; Diglyceride kinase beta; DGK-beta
Host	Synthetic
Species Reactivity	Human, Monkey
Form/Format	Lyophilized powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	DGK beta peptide (MBS823940) is used for blocking the activity of DGK beta antibody (MBS821012)
Molecular Weight	87,051 Da
OMIM	604070
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for DGKB blocking peptide	Blocking (BL)
Application Notes for DGKB blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for DGKB blocking peptide	MBS823940 is a blocking peptide targeting DGKB. Also known as DGK beta Blocking Peptide. Reactive in Human, Monkey. Host: Synthetic. The peptide is used to block Anti-DGK beta Antibody reactivity.
Other Notes	Small volumes of DGKB blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DGKB. It may not necessarily be applicable to this product.

NCBI GI #	22027632
NCBI GeneID	1607
NCBI Accession #	NP_004071.1
UniProt Primary Accession #	Q9Y6T7
UniProt Secondary Accession #	O75241; Q2M377; Q75MF9; Q75MU7; Q86UI5; Q86UM9; Q9UQ29; A4D116; A4D117; A8MXU2
UniProt Related Accession #	Q9Y6T7
GenBank Nucleotide #	NM_004080.2
NCBI Official Full Name	diacylglycerol kinase beta isoform 1

NCBI Official Synonym Full Names	diacylglycerol kinase, beta 90kDa
NCBI Official Symbol	DGKB
NCBI Official Synonym Symbols	DGK; DAGK2; DGK-BETA
UniProt Protein Name	Diacylglycerol kinase beta
UniProt Synonym Protein Names	90 kDa diacylglycerol kinase; Diglyceride kinase beta; DGK-beta
Protein Family	Diacylglycerol kinase
UniProt Gene Name	DGKB
UniProt Synonym Gene Names	DAGK2; KIAA0718; DAG kinase beta; DGK-beta
UniProt Entry Name	DGKB_HUMAN
NCBI Protein Information	diacylglycerol kinase beta; DAG kinase beta; diglyceride kinase beta; 90 kDa diacylglycerol kinase
NCBI Summary for DGKB	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. [provided by RefSeq, Jul 2008]
UniProt Comments for DGKB	DGKB: is a cytoplasmic enzyme that phosphorylates 1,2-diacylglycerol. A regulator 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). Protein type: Lipid Metabolism - glycerolipid; Kinase, lipid; Lipid Metabolism - glycerophospholipid; EC 2.7.1.107; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 7p21.2 Cellular Component: cytoplasm; plasma membrane Molecular Function: calcium ion binding; diacylglycerol kinase activity; ATP binding; NAD+ kinase activity Biological Process: platelet activation; protein kinase C activation; blood coagulation; phosphorylation
Research Articles on DGKB	**1.** in addition to kinase activity, plasma membrane localization via the C1 domain and basic amino acids at the C-terminus were indispensable for neurite induction by DGKbeta
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