

DGKB recombinant protein

DGKB, Active

CATALOG # AAA73409	HOST Sf9 insect cells	APPLICATIONS Kinase Assay
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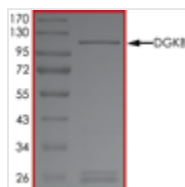
PRODUCT SYNONYMS

DGKB; Active; DGK; DAGK2; DGK-BETA; DGKB recombinant protein

PRODUCT SPECIFICATIONS

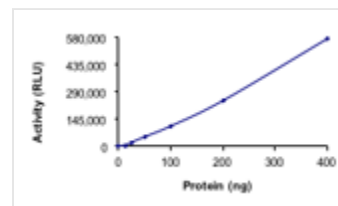
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, and 25% glycerol.
Applicable Applications for DGKB recombinant protein	Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. 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.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for DGKB recombinant protein	Recombinant full-length human DGKB was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The DGKB gene accession number is NM_004080. Diacylglycerol kinase beta (DAG kinase beta) is a member of class I diacylglycerol kinase family and is regulated by Ca ²⁺ (1). Via converting diacylglycerol into phosphatidic acid, diacylglycerol kinases decrease the diacylglycerol levels to regulate the activity of PKC, Rho and Ras families (2). DGK beta is localized in brain and is involved in emotion and long-term memory linked to cognitive function (3). Impaired levels of diacylglycerol by DGK beta limits the NADPH oxidase activation in phagosomes (4).
Product Categories/Family for DGKB recombinant protein	Lipid Kinases; Apoptosis/Autophagy; Cancer; Cardiovascular Disease; Cell Cycle; Inflammation; PKA/PKC Pathway

References

1. Merida, I. et al. Diacylglycerol kinases: at the hub of cell signaling. *Biochem. J.* (409), 1-18, 2008.
2. Kano, T. et al. Both the C1 domain and a basic amino acid cluster at the C-terminus are important for the neurite and branch induction ability of DGKb. *Biochemical and Biophysical Research Communications.* (447) 89-94, 2014.
3. Caricasole, A. et al. Molecular Cloning and Characterization of the Human Diacylglycerol Kinase beta (DGKb) Gene. *The Journal of Biological Chemistry.* (277) 4790-4796, 2002.
4. Schlam, D. et al. Diacylglycerol Kinases Terminate Diacylglycerol Signaling during the Respiratory Burst Leading to Heterogeneous Phagosomal NADpHOxidase Activation. *The Journal of Biological Chemistry.* (288), 23090-23104, 2013.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_004080
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Molecular Weight	118kDa
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/dgkb-recombinant-protein-sf9-insect-cells-kinase-assay/73409>