

DGKD recombinant protein

DGKD, Active

CATALOG # AAA73411	HOST Sf9 insect cells	APPLICATIONS Kinase Assay
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PRODUCT SYNONYMS

DGKD; Active; DGKdelta; DGKD-2; DAGKdelta; DGKD 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 DGKD 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 DGKD recombinant protein	Recombinant full-length human DGKD was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_003648. Diacylglycerol kinase delta (DGKD) is a member of DGK family type II which have a pleckstrin homology domain instead of the EF-hand motif in addition to two cysteine-rich regions (C1 domain) in the regulatory domain. These enzymes catalyze the phosphorylation of diacylglycerol, a fundamental lipid second messenger that activates numerous proteins such as protein kinase C isoforms and RAS guanyl nucleotide-releasing proteins and some transient receptor potential channels.(1) DGK delta is involved in cell proliferation and glucose metabolism, and has been associated with certain cancers, diabetes and epilepsy.(2)
Product Categories/Family for DGKD recombinant protein	Lipid Kinases ; Apoptosis/Autophagy ; Cancer ; Cardiovascular Disease ; Cell Cycle ; Inflammation ; PKA/PKC Pathway
References	1. Sakane, F. et al. (1997) Diacylglycerol kinase J. Biol. Chem. 29, 1139-1143. 2. Sakai, H. et al. (2012). Recent progress on type II diacylglycerol kinases: the physiological functions of diacylglycerol kinase, delta, eta and kappa their involvement in disease. J Biochem. 152(5):397-406.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_003648
Molecular Weight	151kDa

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/dgkd-recombinant-protein-sf9-insect-cells-kinase-assay/73411>