

DGKZ recombinant protein

DGKZ, Active

CATALOG # AAA73424	HOST Sf9 insect cells	APPLICATIONS Kinase Assay
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PRODUCT SYNONYMS

DGKZ; Active; DAGK5; DAGK6; DGK-ZETA; hDGKzeta; DGKZ recombinant protein

PRODUCT SPECIFICATIONS

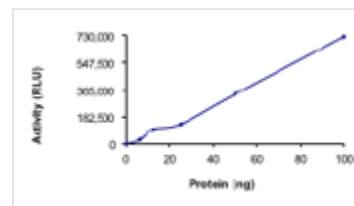
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, and 25% glycerol.
Applicable Applications for DGKZ recombinant protein	Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with 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 DGKZ recombinant protein	Recombinant full-length human DGKZ was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The DGKZ gene accession number is NM_003646. Diacylglycerol kinase zeta (DAG kinase zeta) is a member of class IV diacylglycerol kinase family, which contains two zinc fingers, an ATP binding site, and four ankyrin repeats with the MARCKS phosphorylation site, and exhibits the preference for 1,2-diacylglycerols but not for long chain diacylglycerols (1). DGK zeta regulates Ras activation via terminating the diacylglycerol signaling induced RasGRP (2). DGK zeta deficient mice were hyper-responsive to T cell receptor stimulation (3). Also, increased expression levels of DGK zeta promotes Rho GTPase activity and cancer cell invasion (4).
Product Categories/Family for DGKZ recombinant protein	Lipid Kinases; Apoptosis/Autophagy; Cancer; Cardiovascular Disease; Cell Cycle; Inflammation; PKA/PKC Pathway

References

1. Bunting, M. et al. Molecular Cloning and Characterization of a Novel Human Diacylglycerol Kinase zeta. The Journal of Biological Chemistry. (271) 10230-10236, 1996.
2. Topham, M. et al. Diacylglycerol Kinase zeta Regulates Ras Activation by a Novel Mechanism. The Journal of Cell Biology. (152) 1135-1143, 2001.
3. Zhong X. et al. Enhanced T cell responses due to diacylglycerol kinase zeta deficiency. Nature Immunology. (4) 882-890, 2003.
4. Cai K. et al. Increased diacylglycerol kinase zeta expression in human metastatic colon cancer cells augments Rho GTPase activity and contributes to enhanced invasion. BMC Cancer. (14) 208-217, 2014.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_003646
Molecular Weight	132kDa

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://www.aaabiotech.com/dgkz-recombinant-protein-sf9-kinase-assay/73424>