

DGKE recombinant protein

DGKE, Active

CATALOG # AAA73412	HOST Sf9 insect cells	APPLICATIONS Kinase Assay
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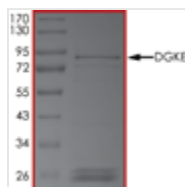
PRODUCT SYNONYMS

DGKE; Active; DGK; AHUS7; DAGK5; DAGK6; NPHS7; DGKE recombinant protein

PRODUCT SPECIFICATIONS

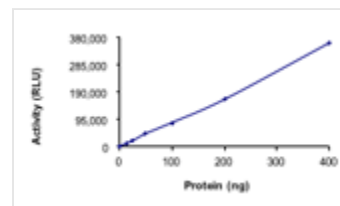
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, and 25% glycerol.
Applicable Applications for DGKE recombinant protein	Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with 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 DGKE recombinant protein	Recombinant full-length human DGKE was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The DGKE gene accession number is NM_003647. Diacylglycerol kinase epsilon (DAG kinase epsilon) is the only member of class III diacylglycerol kinase family, which lacks the E-F hand motifs for Ca²⁺ binding but possess a clear selectivity for arachidonoyl-containing species of diacylglycerol (1). DGK epsilon might decrease signals conducted via arachidonoyl-diacylglycerol or promotes the synthesis of phospholipids with certain fatty acids (1). DGK epsilon contributes to Huntington disease pathogenesis and its inhibition might be effect in the therapeutics (2). Also, recessive mutations in DGKE results in unrestricted complement activation in atypical hemolytic-uremic syndrome (3).
Product Categories/Family for DGKE recombinant protein	Lipid Kinases; Apoptosis/Autophagy; Cancer; Cardiovascular Disease; Cell Cycle; Inflammation; PKA/PKC Pathway

References

1. Tang, W. et al. Molecular Cloning of a Novel Human Diacylglycerol Kinase Highly Selective for Arachidonate-containing Substrates. The Journal of Biological Chemistry. (271) 10237-10241, 1996.
2. Zhang, N. et al. Inhibition of Lipid Signaling Enzyme Diacylglycerol Kinase Epsilon Attenuates Mutant Huntingtin Toxicity. The Journal of Biological Chemistry. (287) 21204-21213, 2012.
3. Lemaire, M. et al. Recessive mutations in DGKE cause atypical hemolytic-uremic syndrome. Nature Genetics. (45) 531-536, 2013.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_003647](#)

Molecular Weight

91kDa

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/dgke-recombinant-protein-sf9-kinase-assay/73412>