

DGKG recombinant protein

DGKG, Active

CATALOG # AAA73415	HOST Sf9 insect cells	APPLICATIONS Kinase Assay
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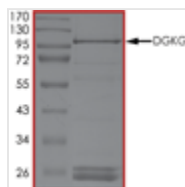
PRODUCT SYNONYMS

DGKG; Active; DGKgamma; DAGK3; DAGKgamma; DGKG recombinant protein

PRODUCT SPECIFICATIONS

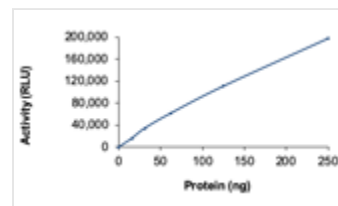
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris -HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, and 25% glycerol.
Applicable Applications for DGKG recombinant protein	Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with 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 DGKG recombinant protein	Recombinant full-length human DGKG was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_001080744.1. Diacylglycerol kinase gamma (DGKG) is a member of DGK type I subfamily which have EF-hand motifs and 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) DKAG has been associated with malignancies with its role as tumor suppressor in colorectal cancer. (2) DGKG is also implicated in regulation of cell cycle regulation. (3)
Product Categories/Family for DGKG 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. Kai, M. et al (2017). Epigenetic silencing of diacylglycerol kinase gamma in colorectal cancer. Mol. Carcinog. 56, 1743-1752.
3. Matsubara, T. et al. (2006). Nuclear transportation of diacylglycerol kinase gamma and its possible function in the nucleus. J. Biol. Chem. 281, 6152-6164.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_001080744.1](#)

Molecular Weight

116kDa

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/dgkg-recombinant-protein-sf9-kinase-assay/73415>