

DGKH recombinant protein

DGKH, Active

CATALOG #
AAA73418

HOST
Sf9 insect cells

PRODUCT SYNONYMS

DGKH; Active; Diacylglycerol kinase eta; Diglyceride kinase eta; DGKH recombinant protein

PRODUCT SPECIFICATIONS

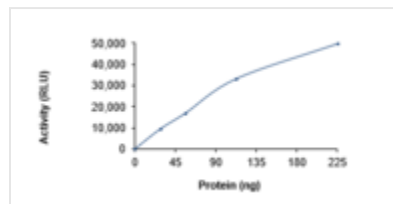
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT and 25% glycerol.
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot targets into smaller quantities after centrifugation and store at the 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 the related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for DGKH recombinant protein

Recombinant full-length human DGKH was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_178009.5.

DGKH is a type II DGK encoded by gene DGKH (1). Diacylglycerol kinases modulate the concentration of intracellular diacylglycerol by phosphorylating, producing phosphatidic acid (PA)(2). PA regulates signaling proteins, such as protein kinases and phosphatases, and can induce cell mitosis through regulation of growth factors (3).

DGKH is a positive regulator of the epidermal growth factor receptor/Raf/MEK/ERK pathway. DGKH is associated with attention deficit hyperactivity disorder, unipolar depression and schizophrenia (4).

Product Categories/Family for DGKH recombinant protein

Lipid Kinases; Apoptosis/Autophagy; Cancer; Cell Cycle; Cellular Stress; Lipid Kinases

References

1. Rittiner, JE. et al: Overexpression of diacylglycerol kinase eta enhances Galphaq-coupled G protein-coupled receptor signaling. Mol Pharmacol. 2014; 85(5):800-810.
2. Ding, L. et al: The cloning and characterization of a novel human diacylglycerol kinase, DGKiota. J Biol Chem. 1998; 273(49):32746-52.
3. Buckland, AG. et al: Anionic phospholipids, interfacial binding and the regulation of cell functions. Biochim Biophys Acta. 2000; 1483(2):199-216.
4. Sakane, F. et al: Diacylglycerol kinases as emerging potential drug targets for a variety of diseases: An update. Front Cell Dev Biol. 2016; 4:82.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_178009.5](#)

Molecular Weight

approx. MW: 165kDa

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/dgkh-recombinant-protein-sf9-insect-cells/73418>