

DGKI recombinant protein

DGKI, Active

CATALOG #
AAA73420

HOST
Sf9 insect cells

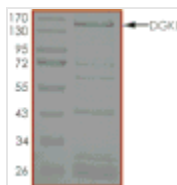
PRODUCT SYNONYMS

DGKI; Active; Diacylglycerol kinase iota; DGK-iota; DGKI recombinant protein

PRODUCT SPECIFICATIONS

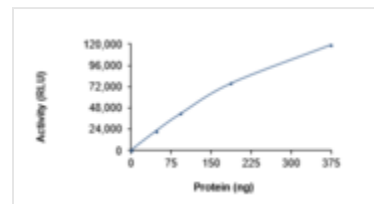
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT and 25% glycerol.
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot 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 the 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 DGKI recombinant protein	Recombinant full-length human DGKI was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NP_004708.1. Diacylglycerol kinase iota (DGKI) is a member of the type IV diacylglycerol kinase subfamily. Diacylglycerol kinases modulate the concentration of intracellular diacylglycerol by phosphorylating, producing phosphatidic acid (PA)(1). PA regulates signaling proteins, such as protein kinases and phosphatases, and can induce cell mitosis through regulation of growth factors (2). DGKI has been shown to overexpress in a variety of cancers and is associated with poor prognosis in colon and gastric cancer (3).
Product Categories/Family for DGKI recombinant protein	Lipid Kinases; Apoptosis/Autophagy; Cancer; Cellular Stress; Inflammation; Invasion/Metastasis; Lipid Kinases

References	1. Ding, L. et al: The cloning and characterization of a novel human diacylglycerol kinase, DGKiota. J Biol Chem. 1998; 273(49):32746-52. 2. Buckland, AG. et al: Anionic phospholipids, interfacial binding and the regulation of cell functions. Biochim Biophys Acta. 2000; 1483(2):199-216. 3. Penrose, HM. et al: In colonic cells reduced mitochondrial function mediates transcriptomic alterations associated with cancer. Oncoscience. 2017; 4(11-12):189-198.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4758156
NCBI GeneID	9162
NCBI Accession #	NP_004708.1
NCBI GenBank Nucleotide #	NM_004717.2
UniProt Accession #	O75912; Q9NZ49; A4D1Q9
Molecular Weight	116,997 Da
NCBI Official Full Name	diacylglycerol kinase iota
NCBI Official Synonym Full Names	diacylglycerol kinase, iota
NCBI Official Symbol	DGKI
NCBI Official Synonym Symbols	DGK-IOTA
NCBI Protein Information	diacylglycerol kinase iota; DAG kinase iota; diglyceride kinase iota
UniProt Protein Name	Diacylglycerol kinase iota
UniProt Gene Name	DGKI
UniProt Synonym Gene Names	DAG kinase iota; DGK-iota
UniProt Entry Name	DGKI_HUMAN

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/dgki-recombinant-protein-sf9/73420>