

Datasheet for ABIN7556213
DGKE Protein (AA 1-564) (His tag)



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Overview

Quantity:	1 mg
Target:	DGKE
Protein Characteristics:	AA 1-564
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DGKE protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Dgke Protein expressed in mammalian cells.
Sequence:	<p>MEGDQRSQPP AQSLLPDGHV VLWTLCSVLL PVFITLWCSL QRSRRQLHRR DIFRKSCHKW RDTDLFSHPT YCCVCAQHIL QGAFCDCCGL RVDEGCLKKV DKRFPCKEIM LKNDKAADAM PHHWIRGNVP LCSYCVFCRQ QCGSQPKLCD YRCIWCQKTV HDECMRGSRLR SEKCDFGEFR NLIIPPSYLT SINQMRKDKN TNYEGLASKF GKQWTPLIIL ANSRSGTNMG EGLLGEFKIL LNPVQVFDVT KTPPIKALQL CTLLPYYSVR VLVCGGDGTW GWVLDAIDEM KIKGQEKYIP EVAVLPLGTG NDLSNTLGWG TGYAGEIPVA QVLRNVMEAD GIKLDRWKVQ VTNKGYYNLR KPKEFTMNMY FSVGPDALMA LNFHAHREKA PSLFSSRILN KAVYLFYGTK DCLVQECKDL NKKIELELDG ERVELPNLEG IIVLNIGYWG GGCRLWEGMG DETYPLARHD DGLLEIVGVY GSFHCAQIQV KLANPFRIGQ AHTVRLTLKC SMMPMQVDGE PWAQGPCTVT ITHKTHALML YFSGEQSDDD ISSPSDHEDV KEAE Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>

Product Details

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	DGKE
Alternative Name:	Dgke (DGKE Products)
Background:	<p>Diacylglycerol kinase epsilon (DAG kinase epsilon) (EC 2.7.1.107) (Diglyceride kinase epsilon) (DGK-epsilon),FUNCTION: Membrane-bound diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed:11287665). Thereby, acts as a central switch between the signaling pathways activated by these second messengers with different cellular targets and opposite effects in numerous biological processes (PubMed:11287665). Also plays an important role in the biosynthesis of complex lipids (By similarity). Displays specificity for diacylglycerol substrates with an arachidonoyl acyl chain at the sn-2 position, with the highest activity toward 1-octadecanoyl-2-(5Z,8Z,11Z,14Z-eicosatetraenoyl)-sn-glycerol the main diacylglycerol intermediate within the phosphatidylinositol turnover cycle (PubMed:11287665, PubMed:19744926). Can also phosphorylate diacylglycerol substrates with a linoleoyl acyl</p>

Target Details

	chain at the sn-2 position but much less efficiently (By similarity). {ECO:0000250 UniProtKB:P52429, ECO:0000269 PubMed:11287665, ECO:0000269 PubMed:19744926}.
Molecular Weight:	63.6 kDa
UniProt:	Q9R1C6

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months