Datasheet for ABIN7547072

DGKE Protein (AA 1-567) (His tag)

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Overview

Quantity:	1 mg
Target:	DGKE
Protein Characteristics:	AA 1-567
Origin:	Human
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:	MEAERRPAPG SPSEGLFADG HLILWTLCSV LLPVFITFWC SLQRSRRQLH RRDIFRKSKH GWRDTDLFSQ PTYCCVCAQH ILQGAFCDCC GLRVDEGCLR KADKRFQCKE IMLKNDTKVL DAMPHHWIRG NVPLCSYCMV CKQQCGCQPK LCDYRCIWCQ KTVHDECMKN SLKNEKCDFG EFKNLIIPPS YLTSINQMRK DKKTDYEVLA SKLGKQWTPL IILANSRSGT NMGEGLLGEF RILLNPVQVF DVTKTPPIKA LQLCTLLPYY SARVLVCGGD GTVGWVLDAV DDMKIKGQEK YIPQVAVLPL GTGNDLSNTL GWGTGYAGEI PVAQVLRNVM EADGIKLDRW KVQVTNKGYY NLRKPKEFTM NNYFSVGPDA LMALNFHAHR EKAPSLFSSR ILNKAVYLFY GTKDCLVQEC KDLNKKVELE LDGERVALPS LEGIIVLNIG YWGGGCRLWE GMGDETYPLA RHDDGLLEVV GVYGSFHCAQ IQVKLANPFR IGQAHTVRLI LKCSMMPMQV DGEPWAQGPC TVTITHKTHA MMLYFSGEQT DDDISSTSDQ EDIKATE **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.**

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:	Key Benefits: • 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). 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
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:	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:15544348, PubMed:19744926, PubMed:22108654, PubMed:21477596, PubMed:23949095). 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:8626589, PubMed:15544348). Also plays an important role in the biosynthesis of complex lipids (PubMed:8626589). 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

Target Details

	(PubMed:19744926, PubMed:22108654, PubMed:23274426). Can also phosphorylate diacylglycerol substrates with a linoleoyl acyl chain at the sn-2 position but much less efficiently (PubMed:22108654). {ECO:0000269|PubMed:15544348, ECO:0000269|PubMed:19744926, ECO:0000269|PubMed:21477596, ECO:0000269|PubMed:22108654, ECO:0000269|PubMed:23274426, ECO:0000269|PubMed:23949095, ECO:0000303|PubMed:15544348, ECO:0000303|PubMed:8626589}.
Molecular Weight:	63.9 kDa
UniProt:	P52429

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