Datasheet for ABIN7553678

DGKI Protein (AA 1-1065) (His tag)

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Overview

Quantity:	1 mg
Target:	DGKI
Protein Characteristics:	AA 1-1065
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DGKI protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant DGKI Protein expressed in mammalian cells.
Sequence:	MDAAGRGCHL LPLPAARGPA RAPAAAAAAA ASPPGPCSGA ACAPSAAAGA GAMNPSSSAG EEKGATGGSS SSGSGAGSCC LGAEGGADPR GAGSAAAAGA AALDEPAAAG QKEKDEALEE KLRNLTFRKQ VSYRKAISRA GLQHLAPAHP LSLPVANGPA KEPRATLDWS ENAVNGEHLW LETNVSGDLC YLGEENCQVR FAKSALRRKC AVCKIVVHTA CIEQLEKINF RCKPTFREGG SRSPRENFVR HHWVHRRRQE GKCKQCGKGF QQKFSFHSKE IVAISCSWCK QAFHNKVTCF MLHHIEEPCS LGAHAAVIVP PTWIIKVKKP QNSLKASNRK KKRTSFKRKA SKRGMEQENK GRPFVIKPIS SPLMKPLLVF VNPKSGGNQG TKVLQMFMWY LNPRQVFDLS QEGPKDALEL YRKVPNLRIL ACGGDGTVGW ILSILDELQL SPQPPVGVLP LGTGNDLART LNWGGGYTDE PVSKILCQVE DGTVVQLDRW NLHVERNPDL PPEELEDGVC KLPLNVFNNY FSLGFDAHVT LEFHESREAN PEKFNSRFRN KMFYAGAAFS DFLQRSSRDL SKHVKVVCDG TDLTPKIQEL KFQCIVFLNI PRYCAGTMPW GNPGDHHDFE PQRHDDGYIE VIGFTMASLA ALQVGGHGER LHQCREVMLL TYKSIPMQVD GEPCRLAPAM IRISLRNQAN MVQKSKRRTS MPLLNDPQSV

Product Details

	PDRLRIRVNK ISLQDYEGFH YDKEKLREAS ISDWLRTIAG ELVQSFGAIP LGILVVRGDC DLETCRMYID RLQEDLQSVS SGSQRVHYQD HETSFPRALS AQRLSPRWCF LDDRSQEHLH FVMEISQDEI FILDPDMVVS QPAGTPPGMP DLVVEQASGI SDWWNPALRK RMLSDSGLGM IAPYYEDSDL KDLSHSRVLQ SPVSSEDHAI LQAVIAGDLM KLIESYKNGG SLLIQGPDHC SLLHYAAKTG NGEIVKYILD HGPSELLDMA DSETGETALH KAACQRNRAV CQLLVDAGAS LRKTDSKGKT PQERAQQAGD PDLAAYLESR QNYKVIGHED LETAV **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.**
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:	DGKI
Alternative Name:	DGKI (DGKI Products)
Background:	Diacylglycerol kinase iota (DAG kinase iota) (DGK-iota) (EC 2.7.1.107),FUNCTION: Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and

Target Details

	regulates the respective levels of these two bioactive lipids (PubMed:9830018, 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 (Probable). Has probably no preference for any of the diacylglycerols in terms of the acyl chain composition, especially for the acyl chain at the sn-2 position (PubMed:9830018). By controlling the diacylglycerol/DAG-mediated activation of RASGRP3, negatively regulates the Rap1 signaling pathway. May play a role in presynaptic diacylglycerol/DAG signaling and control neurotransmitter release during metabotropic glutamate receptor-dependent long-term depression (By similarity). {ECO:0000250|UniProtKB:D3YWQ0, ECO:0000269|PubMed:23949095, ECO:0000269|PubMed:9830018, ECO:0000305}.
Molecular Weight:	117.0 kDa
UniProt:	O75912

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