Datasheet for ABIN7553646

DGKQ Protein (AA 1-942) (His tag)

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Overview

Quantity:	1 mg
Target:	DGKQ
Protein Characteristics:	AA 1-942
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DGKQ protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant DGKQ Protein expressed in mammalian cells.
Sequence:	MAAAAEPGAR AWLGGGSPRP GSPACSPVLG SGGRARPGPG PGPGPERAGV RAPGPAAAPG HSFRKVTLTK PTFCHLCSDF IWGLAGFLCD VCNFMSHEKC LKHVRIPCTS VAPSLVRVPV AHCFGPRGLH KRKFCAVCRK VLEAPALHCE VCELHLHPDC VPFACSDCRQ CHQDGHQDHD THHHHWREGN LPSGARCEVC RKTCGSSDVL AGVRCEWCGV QAHSLCSAAL APECGFGRLR SLVLPPACVR LLPGGFSKTQ SFRIVEAAEP GEGGDGADGS AAVGPGRETQ ATPESGKQTL KIFDGDDAVR RSQFRLVTVS RLAGAEEVLE AALRAHHIPE DPGHLELCRL PPSSQACDAW AGGKAGSAVI SEEGRSPGSG EATPEAWVIR ALPRAQEVLK IYPGWLKVGV AYVSVRVTPK STARSVVLEV LPLLGRQAES PESFQLVEVA MGCRHVQRTM LMDEQPLLDR LQDIRQMSVR QVSQTRFYVA ESRDVAPHVS LFVGGLPPGL SPEEYSSLLH EAGATKATVV SVSHIYSSQG AVVLDVACFA EAERLYMLLK DMAVRGRLLT ALVLPDLLHA KLPPDSCPLL VFVNPKSGGL KGRDLLCSFR KLLNPHQVFD LTNGGPLPGL HLFSQVPCFR VLVCGGDGTV GWVLGALEET RYRLACPEPS VAILPLGTGN DLGRVLRWGA GYSGEDPFSV LLSVDEADAV LMDRWTILLD

Product Details

	AHEAGSAEND TADAEPPKIV QMSNYCGIGI DAELSLDFHQ AREEEPGKFT SRLHNKGVYV RVGLQKISHS RSLHKQIRLQ VERQEVELPS IEGLIFINIP SWGSGADLWG SDSDTRFEKP RMDDGLLEVV GVTGVVHMGQ VQGGLRSGIR IAQGSYFRVT LLKATPVQVD GEPWVQAPGH MIISAAGPKV HMLRKAKQKP RRAGTTRDAR ADAAPAPESD PR **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:	DGKQ
Alternative Name:	DGKQ (DGKQ Products)
Background:	Diacylglycerol kinase theta (DAG kinase theta) (DGKtheta) (EC 2.7.1.107) (EC 2.7.1.93) (Diglyceride kinase theta) (DGK-theta),FUNCTION: Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed:9099683, PubMed:11309392, PubMed:22627129).

Target Details

	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:11309392, PubMed:17664281, PubMed:26748701). Within the adrenocorticotropic hormone signaling pathway, produces phosphatidic acid which in turn activates NR5A1 and subsequent steroidogenic gene transcription (PubMed:17664281). Also functions downstream of the nerve growth factor signaling pathway being specifically activated in the nucleus by the growth factor (By similarity). Through its diacylglycerol activity also regulates synaptic vesicle endocytosis (PubMed:26748701). {ECO:0000250|UniProtKB:D3ZEY4, ECO:0000269|PubMed:11309392, ECO:0000269|PubMed:17664281, ECO:0000269|PubMed:22627129, ECO:0000269|PubMed:26748701, ECO:0000269|PubMed:9099683}.
Molecular Weight:	101.2 kDa
UniProt:	P52824

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