Datasheet for ABIN7557411

PLA2G4E Protein (AA 1-875) (His tag)

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Overview

Quantity:	1 mg
Target:	PLA2G4E
Protein Characteristics:	AA 1-875
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLA2G4E protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Pla2g4e Protein expressed in mammalian cells.
Sequence:	MQSIPHSDEA DVAGMTHASE GHHGLGTSML VPKNPQGEED SKLGRNCSGF EDAQDPQTAV PSSPLLSMAS CSSQEGSSPC HLLTVRIIGM KNVRQADILS QTDCFVTLWL PTASQKKLKT RTISNCLHPE WDESFTFQIQ TQVKNVLELS VCDEDTLTQN DHLLTVLYDL SKLCLRNKTH VKFPLNPEGM EELEVEFLLE ENFSSSETLI TNGVLVSRQV SCLEVHAESR RPRKRKKNKD LLVMVTDSFE NTQRVPPCQE PCYPNSACFH YPKYSQPQLY AEAPKSHCNF RLCCCGTHRN DPVCQPLNCL SDGQVTTLPV GENYELHMKS SPCSDTLDVR LGFSLCQEEV EFVQKRKMVV AKTLSQMLQL EEGLHEDEVP IIAIMATGGG TRSMVSLYGH LLGLQKLNFL DASTYITGLS GATWTMATLY SDPEWSSKNL ETVVFEARRH VVKDKMPALF PDQLYKWRED LQKHSQEGYK TTFTDFWGKL IEYSLGDKKN ECKLSDQRAA LCRGQNPLPI YLTINVKDDV SNQDFREWFE FSPYEVGMQK YGAFIPSELF GSEFFMGRLM KRIPEPEMCY MLGLWSSIFS LNLLDAWNLS HTSEEFFYRW TRERLHDIED DPILPEIPRC DDNPLETTVV IPTTWLSNTF REILTRRPFV SEFHNFLYGM QLHTDYLQNR QFSMWKDTVL DTFPNQLTQF AKHLNLLDTA FFVNSSYAPL

Product Details

	LRPERKVDLI IHLNYCAGSQ TKPLKQTCEY CTEQKIPFPS FSILEDDNSL KECYVMENPQ EPDAPIVAYF PLISDTFQKY KAPGVERSPD ELELGQLNIY GPKSPYATKE LTYTEAAFDK LVKLSEYNIL NNRDKLIQAL RLAMEKKRMR SQCPS **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:	PLA2G4E
Alternative Name:	Pla2g4e (PLA2G4E Products)
Background:	Cytosolic phospholipase A2 epsilon (cPLA2-epsilon) (EC 3.1.1.4) (Calcium-dependent N-acyltransferase) (Phospholipase A2 group IVE),FUNCTION: Calcium-dependent N-acyltransferase involved in the biosynthesis of N-acyl ethanolamines (NAEs) in the brain (PubMed:27399000). Transfers the sn-1 fatty acyl chain of phosphatidylcholine (fatty acyl donor) to the amine group of phosphatidylethanolamine (fatty acyl acceptor) to generate N-acyl

Target Details

	phosphatidylethanolamine (NAPE). Similarly can use plasmenylethanolamine as a fatty acyl acceptor to form N-acyl plasmenylethanolamine (N-Acyl-PlsEt). Both NAPE and N-Acyl-PlsEt can serve as precursors of bioactive NAEs like N-arachidonoyl phosphatidylethanolamine also called anandamide (PubMed:27399000, PubMed:29447909). Has weak phospholipase A2 and lysophospholipase activities (PubMed:27399000, PubMed:15866882). Regulates intracellular membrane trafficking that requires modulation of membrane curvature as it occurs by enrichment in lysophospholipids. Promotes tubule formation involved in clathrin-independent endocytotic trafficking and cargo recycling (PubMed:24413173). {ECO:0000269|PubMed:15866882, ECO:0000269|PubMed:24413173, ECO:0000269|PubMed:27399000, ECO:0000269|PubMed:29447909}.
Molecular Weight:	100.2 kDa
UniProt:	Q50L42
Pathways:	Inositol Metabolic Process, VEGF Signaling

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