

Datasheet for ABIN7557410
PLA2G4F Protein (AA 1-855) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	PLA2G4F
Protein Characteristics:	AA 1-855
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLA2G4F protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Pla2g4f Protein expressed in mammalian cells.
Sequence:	MPWTLQPKWL AGKGLPLLGA ILLRKTEKSE PQWKHRRQET HPYYDLQVKV LRARNIQHTD KLSKADCYVR LWLPTASVSP SQTRTVVNSS DPEWNETFPY QIHGAVKNVL ELALYDEDVL DSDNVFSILF DTSTLQLGQP CTKNFTRQQD PKELEVEFTL EKSQTPASEV VTNGVLVAHP CLRIQGTVTG DKTASLGELG SRQIQLAVPG AYEKQPQLQP TSEGPLPVNF TFHVNPVLSLSP KLHIKLQEQL QVFHSGPSDE LEAQTSKMDK ASILLSSLPL NEELTKLVDL EEGQQVSLRM KADMSSSGDL DLRLGFDLCD GEQEFLDKRRK QVASKALQRV MGLSEALHCD QVPVAVLGS GGGTRAMTSL YGSLAGLQEL GLLDAVTYLS GVSGSSWCIS TLYRDPSWSQ KALQGPIKYA SERVCSSKIG MLSPKQFEYY SREKRAWESR GHSMSFTDLW GLIIEYFLNQ EENPAKLSAQ QETVSQGQNP YPIYASINVH KNISGDDFAE WCEFTPYEVG FPKYGAYVPT ELFGSEFFMG RLLHFWPEPR ICYLQGMWGS AFAASLYEIF LKLGGLSLSF LDWHRGSVSV TDDWPKLRKQ DPTRLPTRLF TPMSSFSQAV LDIFTSRITC AQTFFNTRGL CMYKDYTARK DFVWSEDAWH SHNYGYPDAC PNQLTPMKDF LSLVDGGFAI NSPFPLVLQP QRAVDLIVSF DYSLEGPFV

Product Details

LQVTEKYCRD RGIPFPRIEV DPKDSEDPRE CYLFAEAEDP CSPIVLHFPL VNRTFRTHLA
PGVERQTAEE KAFGDFIING PDTAYGMMDF TYEPKEFDRL VTLSRYNVLN NKETIRHALQ
LALDRRRQAG GRVGG **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: PLA2G4F

Alternative Name: Pla2g4f ([PLA2G4F Products](#))

Background: Cytosolic phospholipase A2 zeta (cPLA2-zeta) (EC 3.1.1.4) (Phospholipase A2 group IVF),FUNCTION: Has calcium-dependent phospholipase and lysophospholipase activities with a potential role in membrane lipid remodeling and biosynthesis of lipid mediators (PubMed:17293613, PubMed:15866882). Preferentially hydrolyzes the ester bond of the fatty acyl group attached at sn-2 position of phospholipids (phospholipase A2 activity) (PubMed:17293613, PubMed:15866882). Selectively hydrolyzes sn-2 arachidonoyl group from

Target Details

membrane phospholipids, providing the precursor for eicosanoid biosynthesis (PubMed:15866882, PubMed:17293613). In myocardial mitochondria, plays a major role in arachidonate release that is metabolically channeled to the formation of cardioprotective eicosanoids, epoxyeicosatrienoates (EETs) (By similarity). {ECO:0000250|UniProtKB:Q68DD2, ECO:0000269|PubMed:15866882, ECO:0000269|PubMed:17293613}.

Molecular Weight: 96.4 kDa

UniProt: [Q50L41](#)

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