

Datasheet for ABIN3122392 PLA2G4F Protein (AA 1-855) (Strep Tag)



Overview

Quantity:	250 µg
Target:	PLA2G4F
Protein Characteristics:	AA 1-855
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLA2G4F protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MPWTLQPKWL AGKGLPLLGA ILLRKTEKSE PQWKHRRQET HPYYDLQVKV LRARNIQHTD
	KLSKADCYVR LWLPTASVSP SQTRTVVNSS DPEWNETFPY QIHGAVKNVL ELALYDEDVL
	DSDNVFSILF DTSTLQLGQP CTKNFTRQQD PKELEVEFTL EKSQTPASEV VTNGVLVAHP
	CLRIQGTVTG DKTASLGELG SRQIQLAVPG AYEKPQPLQP TSEPGLPVNF TFHVNPVLSP
	KLHIKLQEQL QVFHSGPSDE LEAQTSKMDK ASILLSSLPL NEELTKLVDL EEGQQVSLRM
	KADMSSSGDL DLRLGFDLCD GEQEFLDKRK QVASKALQRV MGLSEALHCD QVPVVAVLGS
	GGGTRAMTSL YGSLAGLQEL GLLDAVTYLS GVSGSSWCIS TLYRDPSWSQ KALQGPIKYA
	SERVCSSKIG MLSPKQFEYY SREKRAWESR GHSMSFTDLW GLIIEYFLNQ EENPAKLSDQ
	QETVSQGQNP YPIYASINVH KNISGDDFAE WCEFTPYEVG FPKYGAYVPT ELFGSEFFMG
	RLLHFWPEPR ICYLQGMWGS AFAASLYEIF LKLGGLSLSF LDWHRGSVSV TDDWPKLRKQ
	DPTRLPTRLF TPMSSFSQAV LDIFTSRITC AQTFNFTRGL CMYKDYTARK DFVVSEDAWH

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3122392 | 02/25/2025 | Copyright antibodies-online. All rights reserved. SHNYGYPDAC PNQLTPMKDF LSLVDGGFAI NSPFPLVLQP QRAVDLIVSF DYSLEGPFEV LQVTEKYCRD RGIPFPRIEV DPKDSEDPRE CYLFAEAEDP CSPIVLHFPL VNRTFRTHLA PGVERQTAEE KAFGDFIING PDTAYGMMDF TYEPKEFDRL VTLSRYNVLN NKETIRHALQ LALDRRRQAG GRVGG

Sequence without tag. The proposed Strep-Tag is based on experience s 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.

Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

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Product Details	
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, 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 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:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the

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Application Details	
	mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storago Commont:	
Storage Comment.	Store at -80°C.