

Datasheet for ABIN3114565 PLA2R1 Protein (AA 21-1463) (rho-1D4 tag)



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1 Image

Overview

Quantity:	1 mg
Target:	PLA2R1
Protein Characteristics:	AA 21-1463
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLA2R1 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	<p>EGVAAALTPE RLLEWQDKGI FVIQSESLKK CIQAGKSVLT LENCKQANKH MLWKWVSNHG</p> <p>LFNIGGSGCL GLNFSAP EQP LSLYECDSL VSLRWRCNRK MITGPLQYSV QVAHDNTVVA</p> <p>SRKYIHKWIS YGSGGGDICE YLHKDLHTIK GNTHGMPCMF PFQYNHQWHH ECTREGREDD</p> <p>LLWCATTSTRY ERDEKWGFCP DPTSAEVGCD TIWEKDLNSH ICYQFNLLSS LSWSEAHSSC</p> <p>QMQGGTLLSI TDETEENFIR EHMSSKTVEV WMGLNQLDEH AGWQWSDGTP LNYLNWSPEV</p> <p>NFEPFVEDHC GTFSSFMPSA WSRDCESTL PYICKKYLNH IDHEIVEKDA WKYYATHCEP</p> <p>GWNPNRNCY KLQKEEKTWH EALRSCQADN SALIDITSLA EVEFLVTLLG DENASETWIG</p> <p>LSSNKIPVSF EWSNDSSVIF TNWHTLEPHI FPNRSQLCVS AEQSEGHWKV KNCEERLFYI</p> <p>CKKAGHVLSD AESGCQEGWE RHGGFCYKID TVLRSFDQAS SGYYCPPALV TITNRFEQAF</p> <p>ITSLISSVVK MKDSYFWIAL QDQNDTGEYT WKPVGQKPEP VQYTHWNTHQ PRYSGGCVAM</p> <p>RGRHPLGRWE VKHCRHFKAM SLCKQPVENQ EKAEEERWP FHPCYLDWES EPGLASCFKV</p> <p>FHSEKVL MKR TWREAEAFCE EFGAHLASFA HIEEENFVNE LLHSKFNWTE ERQFWIGFNK</p>
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RNPLNAGSWE WSDRTPVVSS FLDNTYFGED ARNCAVYKAN KTLPLHCGS KREWICKIPR
DVKPKIPFWY QYDVPWLFYQ DAEYLFHTFA SEWLNFEFVC SWLHSDLLTI HSAHEQEFIG
SKIKALSKYG ASWWIGLQEE RANDEFWRD GTPVIYQND TGRERTVNNQ SQRCGFISSI
TGLWGSEECVS SMPKSICKRK KVLIEKKKD TPKQHGTCPK GWLYFNYKCL LLNIPKDPSS
WKNWTHAQHF CAEEGGTLVA IESEVEQAFI TMNLFGQTTS VWIGLQNDY ETWLNGKPVV
YSNWSPFDII NIPSHNTTEV QKHIPLCALL SSNPNFHFTG KWFYFDCGKE GYGFVCEKMQ
DTSGHGVNTS DMYPMPNTLE YGNRTYKIIN ANMTWYAAIK TCLMHKAQLV SITDQYHQSF
LTVVLNRLGY AHWIGLFTTD NGLNFDWSDG TKSSFTFWKD EESSLLGDCV FADSNRWHWS
TACESFLQGA ICHVPPETRQ SEHPELCSET SIPWIKFSN CYSFSTVLDS MSFEAAHEFC
KKEGSNLLTI KDEAENAFLL EELFAFGSSV QMVWLNAQFD GNNETIKWFD GTPTDQSNWG
IRKPDYDFK PHHCVALRIP EGLWQLSPCQ EKKGFICKME ADIHTAEALP EKGPSHSIIP
LAVVLTLLVI VAICTLSFCI YKHNGGFFRR LAGFRNPYYP ATNFSTVYLE ENILISDLEK SDQ

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human PLA2R1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none">1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.
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Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
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Sterility:	0.22 µm filtered
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Endotoxin Level:	Protein is endotoxin-free.
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Grade:	Crystallography grade
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Target Details

Target:	PLA2R1
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Alternative Name:	PLA2R1 (PLA2R1 Products)
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Background:	<p>Receptor for secretory phospholipase A2 (sPLA2). Acts as a receptor for phospholipase sPLA2-IB/PLA2G1B but not sPLA2-IIA/PLA2G2A. Also able to bind to snake PA2-like toxins. Although its precise function remains unclear, binding of sPLA2 to its receptor participates in both positive and negative regulation of sPLA2 functions as well as clearance of sPLA2. Binding of sPLA2-IB/PLA2G1B induces various effects depending on the cell type, such as activation of the mitogen-activated protein kinase (MAPK) cascade to induce cell proliferation, the production of lipid mediators, selective release of arachidonic acid in bone marrow-derived mast cells. In neutrophils, binding of sPLA2-IB/PLA2G1B can activate p38 MAPK to stimulate elastase release and cell adhesion. May be involved in responses in proinflammatory cytokine productions during endotoxic shock. Also has endocytic properties and rapidly internalizes sPLA2 ligands, which is particularly important for the clearance of extracellular sPLA2s to protect their potent enzymatic activities. The soluble secretory phospholipase A2 receptor form is circulating and acts as a negative regulator of sPLA2 functions by blocking the biological functions of sPLA2-IB/PLA2G1B. {ECO:0000269 PubMed:15611272, ECO:0000269 PubMed:7721806}.</p>
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Molecular Weight:	167.7 kDa Including tag.
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Target Details

UniProt: [Q13018](#)

Pathways: [Positive Regulation of Response to DNA Damage Stimulus](#)

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: In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value 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: Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process