



Datasheet for ABIN3134987

Phospholipase B Protein (PLB) (AA 24-1478) (rho-1D4 tag)



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1 Image

Overview

Quantity:	1 mg
Target:	Phospholipase B (PLB)
Protein Characteristics:	AA 24-1478
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Phospholipase B protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence: QIHGSSGENT LAWQSQQVFW TLKNFPFPCK PKKLELSVLS ESVHSLRPSD IKLVAAIGNP
 EIPLAPGSGT INMEKPQSIK NQPQDVCMGI MTVLSDIIRH FSPSVLMPTC SPGKGTAVHT
 TAEDLWIQAK ELVRRLLKDNP QLDFEKDWKL ITVFFSNTSQ CHLCPSAQQK SHLMRHMENL
 WGVLDYLHHE VPRAFVNLVD LSEVLAMDLDQ HQETGFSPAP EVCKCTETTT LSKAVMQWSY
 QEAWEDLLAS SKFNKHETFA VVFQPFDEI EPPLKRSSPQ DPTTLALRIW NSMMEPVGQK
 DGLLNTAERK TMKCPSEESP YLFTYKNSNY QARRLKPITK LQMKEGSEFT CPDKNPSNSI
 PTTVHSLRPA DIKIIGALGD SLTAGNGAGA SPWNILDVLT EYRGLSWSVG GDETIKTVTT
 LPNILREFNP SLKGFVSVGTG KESTSRASFN QAVAGAKSDG LAGQARKLVD LMKADKTINF
 QEDWKIITVF IGGNDLCASC SNSTRFSPQN FIDNIKNALD ILHAEVPRAF VNMAMVMEIT
 PLRELFNEPT VSCRNLSR LCPCVLGLGD NSEELSSLVQ RNRDYQKKTE ELINSGRYDT
 RDNFTVVVQP LFENVSMPT PEGVPDKSFF APDCFHFNAK THARSAIALW KNMLEPVGHK
 TRHNNFEIKA PIVCPNQASP FLSTTKNSNL NGTWMVCEE RAPSASPPTS VHTLRPADIQ

VVAALGDSLTLT AGNGISSQEG NLTDVSTQYR GLSYSAGGDK TLENTTLPN ILRKFNGNLT
GYSVGTGDSS SANAFNLQAV PGAKAENLTS QVRTLVQKMK SDNRVNFNRD WKVITVMIGA
SDLCDFCTDS NHYSAANFFD HLQNALDILH KEVPRALVNL VDFINPSIIR EVFLKNPDKC
PVNQSSVLCN CVLTPRKDSY ELARLEAFTK SYQSSMLQLV ESGRYDTRED FSVLQPFLL
NTKLPVLENG KPDTSEFFAPD CIHLNQKFHT QLARALWANM LEPLGKKTDT LDPKGGHISLA
CPTKDQPFLR TFRNSNYKYP TKPAIENWGS DFLCTEKSPS SQVPTSVHEL RPADIKVVAA
MGDFLTATG ARPSGYKRLA TPWRGLSWSI GGDGKLEHT TLPNILKKFN PSITGFSTGT
LDNKAGLNVA EEGARAQDMP AQAKTLVKKM KSTPTINLQE DWKLITLLIG NNDLCLYCEN
PEDNSTKEYV KYIQQALDIL YEELPRVFIN VVEVMELAGL HHVQGKGCAM PLAVQKNCSC
LRHSQNLTAM QELKKNLWNL QSGISELSYW HRYMEREDFA VTVQPFFRNT FIPLNEREGL
DLTFFSEDCF YFSDRGHAEM AIALWNNMLE PVGWKTSSNN FIYNRTKLKC PSPERPFLYT
LRNSQLLPDK AEPSNLYW AVPVAAIGGL AVGILGVMLW RTVKPVQQEE EEEDTLPNTS
VTQDAVSEKR LKAGN

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.
- Mouse Plb1 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

Product Details

the Expasy's protparam tool to determine the absorption coefficient of each protein.

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.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target:	Phospholipase B (PLB)
Alternative Name:	Plb1 (PLB Products)
Background:	Membrane-associated phospholipase. Exhibits a calcium-independent broad substrate specificity including phospholipase A2/lysophospholipase activity. Preferential hydrolysis at the sn-2 position of diacylphospholipids and diacylglycerol, whereas it shows no positional specificity toward triacylglycerol. Exhibits also esterase activity toward p-nitrophenyl. May act on the brush border membrane to facilitate the absorption of digested lipids (By similarity). {ECO:0000250}.
Molecular Weight:	163.4 kDa Including tag.
UniProt:	Q3TTY0

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.
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Application Details

Comment: Protein has not been tested for activity yet. 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