

Datasheet for ABIN3115694

Phospholipase B Protein (PLB) (AA 22-1458) (rho-1D4 tag)



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1 Image

Overview

Quantity:	1 mg
Target:	Phospholipase B (PLB)
Protein Characteristics:	AA 22-1458
Origin:	Human
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: QIHTSPRKST LEGQLWPETL KNSPFPCNPN KLGVMPSKS VHSLKPSDIK FVAAIGNLEI
 PDPDGTGDLE KQDWTERPQQ VCMGVMTVLS DIIRYFSPSV PMPVCHTGKR VIPHDGAEDL
 WIQAQELVRN MKENLQLDFQ FDWKLINVFF SNASQCYLCP SAQQNGLAAG GVDELMGVLD
 YLQQEVPRAF VNLVDLSEVA EVSRQYHGTW LSPAPEPCNC SEETTRLAKV VMQWSYQEAW
 NSLLASSRYS EQESFTVVFQ PFFYETTPSL HSEDPRLQDS TTLAWHLWNR MMEPAGEKDE
 PLSVKHGRPM KCPSQESPYL FSYRNSNYLT RLQKPQDKLE VREGAEIRCP DKDPSDTPVT
 SVHRLKPADI NVIGALGDSL TAGNGAGSTP GNVLDVLTQY RGLSWSVGGD ENIGTVTTLA
 NILREFNPSL KGFSVGTGKE TSPNAFLNQA VAGGRAEDLP VQARRLV DLM KNDTRIH FQE
 DWKIITLFIG GNDLCDFCND LVHYSQNF T DNIGKALDIL HAEVPRAFVN LVTVLEIVNL
 RELYQEKKVY CPRMILRSLC PCVLKFDDNS TELATLIEFN KKFQEKTHQL IESGRYDTRE
 DFTVVVQPF F ENVDMPKTSE GLPDNSFFAP DCFHFSSKSH SRAASALWNN MLEPVGQKTT
 RHKFENKINI TCPNQVQPFL RTYKNSMQGH GTWLPCRDR A PSALHPTSVH ALRPADIQVW

AALGDSLTAG NGIGSKPDDL PDVTTQYRGL SYSAGGDGSL ENVTTLPNIL REFNRNLTYG
AVGTGDANDT NAFLNQAVPG AKAEDLMSQV QTLMQKMKDD HRVNFHEDWK VITVLIGGSD
LCDYCTDSNL YSAANFVHHL RNALDVLHRE VPRVLVNLVD FLNPTIMRQV FLGNPDKCPV
QQASVLCNCV LTLRENSQEL ARLEAFSRAY RSSMRELVGS GRYDTQEDFS VVLQPPFQNI
QLPVLADGLP DTSFFAPDCI HPNQKFHSQL ARALWTNMLE PLGSKTETLD LRAEMPITCP
TQNEPFLRTP RNSNYTYPIK PAIENWGSDF LCTEWKASNS VPTSVHQLRP ADIKVVAALG
DSLTTAVGAR PNNSSDLPTS WRGLSWSIGG DGNLEHTTTL PNILKKFNYP LGGFSTSTWE
GTAGLNVAEE GARARDMPAQ AWDLVERMKN SPDINLEKDW KLVTLFIGVN DLCHYCENPE
AHLATEYVQH IQQALDILSE ELPRAFVNVV EVMELASLYQ GQGGKCAMLA AQNNCTCLRH
SQSSLEKQEL KKVNWNLQHG ISSFSYWHQY TQREDFAVVV QPFFQNTLTP LNERGDTDLT
FFSEDCFHFS DRGHAEMAIA LWNMMLPEVG RKTTSNNFTH SRAKLKCPSP ESPYLYTLRN
SRLLPDQAE APEVLYWAVP VAAGVGLVVG IIGTVVWRCR RGGREDPPM SLRTVAL

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 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 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.
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:	162.0 kDa Including tag.
UniProt:	Q6P1J6

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 gurantee 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

Application Details

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