

Datasheet for ABIN3135610
p107 Protein (AA 1-1063) (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	p107 (RBL1)
Protein Characteristics:	AA 1-1063
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This p107 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MFEDEPHAEG AAATAAAAREA LQALCQELNL DEGSAAEALD DFTAIRGNYS LEGEVIHWLA CSLYVACRKS IIPVVGKGVN EGNVSLTRI LRSKLSLIQ FFSKMKKWMD MSNLPQEFRE RIERLERNFE VSTVIFKKFE PIFLDIFQNP YEEPPKLPRS RKQRRIPCSV KDLFNFCWTL FVYTKGNFRM IGDDLVSNSYH LLLCCLDLIF ANAIMCPNRR DLLNPSFKGL PSDFHAPDFK AAEPPCIIA VLCDLHDGLL VEAAGIKHEHY FKPYISKLFD KKILKGECCL DLSSFTDNSK AVNKEYEEYV LTVGDFDERI FLGADAEIII GTPRKFTADT PFGKLTQSAS VECNLQQHFE KKRSFAPSTP LTGRRYLQEK EAVTTPVASA TQSVSRQLSI VAGLKSAPSE QLLNIFESCM RNPMGNIKI VKGIGETFCQ HYTQSTDKQP GSHIDFAVNR LKLAELIYYK ILETIMVQET RRLHGMDMSV LLEQDIFHKS LMACCLEIVL FAYSSPRTFP WIEVLDLQP FYFYKVIEVV IRSEGLSRD MVKHLNSIEE QILESALWTN NSALWEALHA SANRVPSCEE VIFPNNFEIG NGGNVQGHLP MMPMSPIHP RVKEVRTDSG SLRQDMQPLS PISVHERYSS PAAGSAKRRL FGDDPPKDTL MDKIMAEGTK LKIAPSSVTA ELSISPGQA LLTMATTTVT GTTGRKVTVP
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LHGIANDAGE ITLVPISMNP TQESTAESPV SLTAQSLIGT SPKQTHLTKA QDAHLTGVS
PKRTGSLALF YRKVYHLASV RLRDLCLKLD VSNELRRKIW TCFEFTLVHC PDLMKDRHLD
QLLLCAFYIM AKVTKEERTF QEIMKSYRNQ PQANSHVYRS VLLKSIPGGV VVYNGDCENT
DGDIEDATKT PNCSSPEVKE ERGDLIKFYN TVYVGRVKSF ALKYDLSNQD HIMDAPPLSP
FPHIKQQPGS PRRISQQHSL YVSPHKNGAG LTPRSALLYK FNGSPSKSLK DINNMIRQGE
QKTKKRVIAT SGDADSPAKR LCQENDDVLL KRLQDVVSR ANH

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 Rbl1 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.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Product Details

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:	p107 (RBL1)
Alternative Name:	Rbl1 (RBL1 Products)
Background:	Key regulator of entry into cell division. Directly involved in heterochromatin formation by maintaining overall chromatin structure and, in particular, that of constitutive heterochromatin by stabilizing histone methylation. Recruits and targets histone methyltransferases KMT5B and KMT5C, leading to epigenetic transcriptional repression. Controls histone H4 'Lys-20' trimethylation. Probably acts as a transcription repressor by recruiting chromatin-modifying enzymes to promoters. Potent inhibitor of E2F-mediated trans-activation. Forms a complex with adenovirus E1A and with SV40 large T antigen. May bind and modulate functionally certain cellular proteins with which T and E1A compete for pocket binding. May act as a tumor suppressor. {ECO:0000269 PubMed:15750587}.
Molecular Weight:	120.4 kDa Including tag.
UniProt:	Q64701
Pathways:	Cell Division Cycle, Mitotic G1-G1/S Phases

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:	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