Datasheet for ABIN3094884

# p107 Protein (AA 1-1068) (His tag)

1 Image

Go to Product page

## Overview

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|---|---|
| Quantity: | 1 mg |
| Target: | p107 (RBL1) |
| Protein Characteristics: | AA 1-1068 |
| Origin: | Human |
| 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

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| Sequence: | MFEDKPHAEG AAVVAAAGEA LQALCQELNL DEGSAAEALD DFTAIRGNYS LEGEVTHWLA CSLYVACRKS IIPTVGKGIM EGNCVSLTRI LRSAKLSLIQ FFSKMKKWMD MSNLPQEFRE RIERLERNFE VSTVIFKKYE PIFLDIFQNP YEEPPKLPRS RKQRRIPCSV KDLFNFCWTL FVYTKGNFRM IGDDLVNSYH LLLCCLDLIF ANAIMCPNRQ DLLNPSFKGL PSDFHTADFT ASEEPPCIIA VLCELHDGLL VEAKGIKEHY FKPYISKLFD RKILKGECLL DLSSFTDNSK AVNKEYEEYV LTVGDFDERI FLGADAEEEI GTPRKFTRDT PLGKLTAQAN VEYNLQQHFE KKRSFAPSTP LTGRRYLREK EAVITPVASA TQSVSRLQSI VAGLKNAPSD QLINIFESCV RNPVENIMKI LKGIGETFCQ HYTQSTDEQP GSHIDFAVNR LKLAEILYYK ILETVMVQET RRLHGMDMSV LLEQDIFHRS LMACCLEIVL FAYSSPRTFP WIIEVLNLQP FYFYKVIEVV IRSEEGLSRD MVKHLNSIEE QILESLAWSH DSALWEALQV SANKVPTCEE VIFPNNFETG NGGNVQGHLP LMPMSPLMHP RVKEVRTDSG SLRRDMQPLS PISVHERYSS PTAGSAKRRL FGEDPPKEML MDKIITEGTK LKIAPSSSIT AENVSILPGQ TLLTMATAPV TGTTGHKVTI |

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| | PLHGVANDAG EITLIPLSMN TNQESKVKSP VSLTAHSLIG ASPKQTNLTK AQEVHSTGIN RPKRTGSLAL FYRKVYHLAS VRLRDLCLKL DVSNELRRKI WTCFEFTLVH CPDLMKDRHL DQLLLCAFYI MAKVTKEERT FQEIMKSYRN QPQANSHVYR SVLLKSIPRE VVAYNKNIND DFEMIDCDLE DATKTPDCSS GPVKEERGDL IKFYNTIYVG RVKSFALKYD LANQDHMMDA PPLSPFPHIK QQPGSPRRIS QQHSIYISPH KNGSGLTPRS ALLYKFNGSP SKSLKDINNM IRQGEQRTKK RVIAIDSDAE SPAKRVCQEN DDVLLKRLQD VVSERANH<br>**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.<br>• Human RBL1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>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.<br>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.<br>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).<br>When you order this made-to-order protein you will only pay upon receival 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.<br>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.<br>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:<br>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.<br>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

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| 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

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| 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. |
| Molecular Weight: | 121.8 kDa Including tag. |
| UniProt: | P28749 |
| Pathways: | Cell Division Cycle, Mitotic G1-G1/S Phases |

## Application Details

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| 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 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

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| 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

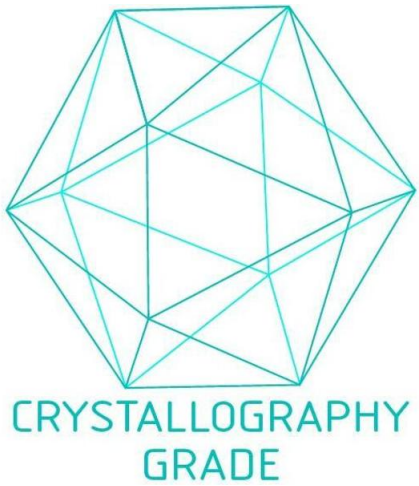


**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process