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Datasheet for ABIN3132431

Laminin gamma 1 Protein (AA 34-1607) (His tag)

Overview

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| Quantity: | 1 mg |
| Target: | Laminin gamma 1 (LAMC1) |
| Protein Characteristics: | AA 34-1607 |
| Origin: | Mouse |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This Laminin gamma 1 protein is labelled with His tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys) |

Product Details

Sequence: AMDECADEGG RPQRCMPEFV NAAFNVTVVA TNTCGTPPEE YCVQTGVTGV TKSCHLCDAG
QQHLQHGAAF LTDYNNQADT TWWQSQTMLA GVQYPNSINL TLHLGKAFDI TYVRLKFHTS
RPESFAIYKR TREDGPWIPY QYYSGSCENT YSKANRGFIR TGGDEQQALC TDEFSDISPL
TGGNVAFSTL EGRPSAYNFD NSPVLQEWVT ATDIRVTLNR LNTFGDEVFN EPKVLKSYYY
AISDFAVGGR CKCNHGASEC VKNEFDKLMC NCKHNTYGVD CEKCLPFFND RPWRRATAES
ASESLPCDCN GRSQECYFDP ELYRSTGHGG HCTNCRDNTD GAKCERCREN FFRLGNTEAC
SPCHCSPVGS LSTQCDSYGR CSCKPGVMGD KCDRCQPGFH SLTEAGCRPC SCDLRGSTDE
CNVETGRCVC KDNVEGFNCE RCKPGFFNLE SSNPKGCTPC FCFGHSSVCT NAVGYSVYDI
SSTFQIDEDG WRVEQRDGE ASLEWSSDRQ DIAVISDSYF PRYFIAPVKF LGNQVLSYGQ
NLSFSFRVDR RDTRLSAEDL VLEGAGLRVS VPLIAQGNSY PSETTVKYIF RLHEATDYPW
RPALSPFEFQ KLLNNLTSIK IRGTYSERTA GYLDDVTLQS ARPGPGVPAT WVESCTCPVG
YGGQFCETCL PGYRRETPSL GPYSPCVLCT CNGHSETCDP ETGVCDCRDN TAGPHCEKCS

DGYYGDSTLG TSSDCQPCPC PGGSSCAIVP KTKEVVCTHC PTGTAGKRCE LCDDGYFGDP
LGSNGPVRLC RPCQCNDNID PNAVGN CNRL TGECLKCIYN TAGFYCDRCK EGFFGNPLAP
NPADKCKACA CNPYGTVQQQ SSCNPVTGQC QCLPHVSGRD CGTCDPGYYN LQSGQGCERC
DCHALGSTNG QCDIRTGQCE CQPGITGQHC ERCETNHFGF GPEGCKPCDC HHEGSLSLQC
KDDGRCECRE GFVGNRCDQC EENYFYNRSW PGCQECPCY RLVKDKAAEH RVKLQELES
IANLGTGDDM VTDQAFEDRL KEAEREVTDL LREAQEVKDV DQNLMDRLQR VNSSLHSQIS
RLQNIRNTIE ETGILAERAR SRVESTEQLI EIASRELEKA KMAAANVSIT QPESTGEPNN
MTLLAEEARR LAERHKQEAD DIVRVAKTAN ETSAEAYNLL LRTLAGE NQT ALEIEELNRK
YEQAKNISQD LEKQAARVHE EAKRAGDKAV EIYASVAQLT PVDSEALENE ANKIKKEAAD
LDRLIDQKLK DYEDLREDMR GKEHEVKNLL EKGKAEQQT A DQLLARADAA KALAEAAKK
GRSTLQEAND ILNNLKDFDR RVNDNKTAEE EALRRIPAIN RTIAEANEKT REAQLALGNA
AADATEAKNK AHEAERIASA VQKNATSTKA DAERTFGEVT DLDNEVNGML RQLEEAENEL
KRKQDDADQD MMMAGMASQA AQEAELNARK AKNSVSSLLS QLNNLLDQLG QLDTVDLNKL
NEIEGSLNKA KDEMKASDL D RKVSDLESEA RKQEAAIMDY NRDIAEIIKD IHNLEDIKKT
LPTGCFNTPS IEKP

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 Lamc1 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

Product Details

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.

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: Laminin gamma 1 (LAMC1)

Alternative Name: Lamc1 ([LAMC1 Products](#))

Background: Binding to cells via a high affinity receptor, laminin is thought to mediate the attachment, migration and organization of cells into tissues during embryonic development by interacting with other extracellular matrix components.

Molecular Weight: 175.0 kDa Including tag.

UniProt: [P02468](#)

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.

Application Details

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)