

Datasheet for ABIN3131467
COL15A1 Protein (AA 32-1367) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	COL15A1
Protein Characteristics:	AA 32-1367
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This COL15A1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	ATGSASQVHL DLTVLIGVPL PSSVSFTTGY GGFPAYSFGP GANVGRPART LIPPTFFRDF AIGVAVKPNS AQGGVLFAIT DAFQKVIYLG LRLSSVEDGR QRVILYYTEP GSHVSREAAV FSVPVMTNRW NRFAVTVQGE EVALFMDCEE QSQVRFQRSS WPLTFEPSAG IFVGNAGAMG LERFTGSIQQ LTIYSDPRTP EELCEAQESS ASGEASGFQE MDEVAEIMEA VTYTQAPPKE SHVDPISVPP TSSSPAEDSE LSGEPVPEGT PETNLSIIGH SSPEQGSGEI LNDTLEVHAM DGDPGTDDGS GDGALLNVTG GQGLSATATG EASVPVTTVL EAENGSMPTG SPTLAMFTQS IREVDTPDPE NLTTTASGDG EVPTSTDGDT EADSSPTGGP TLKPREEATL GSHGEEWLTP AVSKMPLKAF EEEEASGTAI DSLDVIFTPT VWLEQVSRRP TDIQATFTPT VWLEETSGAP TDTQDALTP VAPEQMFTA EPTDGGDLVAS TEEAEEEGSG SMPPSGPPLP TPTVTPKRQV TLVGVEAEGS GPVGGLDEGS GSGDIVGNED LLRGPPGPPG PPGSPGIPGK PGTDVFMGPP GSPGEDGAPG EPGPQGPEGQ PGLDGASGQQ GMKGEKGARG PNGSAGEKGD PGNRGLPGPP GKNGEVGTPG VMGPPGPPGP PGPPGPGCTT ELGFEIEGSG DVRLLSKPTI SGPTSPSGPK
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GEKGEQGAKG ERGADGTSTM GPPGPRGPPG HVEVLSSSLI NITNGSMNFS DIPELMGPPG
PDGVPGLPGF PGPRGPKGDT GVPGFPLKG EQGEKGEPGA ILTGDVPLEM MKGRKGEPGI
HGAPGPMGPK GPPGHKGEFG LPGRPGRPGL NGLKGAKGDR GVTLPGPPGL PGPPGPPGPP
GAVVNIKGAV FPIPARPHCK TPVGTAHPGD PELVTFHGVK GEKGSWGLPG SKGEKGDQGA
QGPPGPPVDP AYLRHFLNSL KGENEDASFR GESSNNLFVS GPPGLPGYPG LVGQKGEAVV
GPQGPPGIPG LPGPPGFGRP GVPGPPGPPG PPGPPAILGA AVALPGPPGP PGQPGLPGSR
NLVTALSDMG DMLQKAHLVI EGTFIYLRDS GEFFIRVRDG WKKLQLGELI PIPADSPPPP
ALSSNPYQPQ PPLNPILSAN YERPVLHLVA LNTPVAGDIR ADFQCFQAR AAGLLSTFRA
FLSSHLQDLS TVVRKAERFG LPIVNLKGQV LFNNWDSIFS GDGGQFNTHI PIYSFDGRDV
MTDPSWPQKV VWHGSNPHGV RLVDKYCEAW RTTDMAVTGF ASPLSTGKIL DQKAYSCANR
LIVLCIENSF MTDTRK

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 Col15a1 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:

Product Details

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:	COL15A1
Alternative Name:	Col15a1 (COL15A1 Products)
Background:	Structural protein that stabilizes microvessels and muscle cells, both in heart and in skeletal muscle., Restin potently inhibits angiogenesis.
Molecular Weight:	137.9 kDa Including tag.
UniProt:	O35206

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
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Handling

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)