

Datasheet for ABIN3135074  
**SEC31A Protein (AA 1-1230) (His tag)**



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1 Image

Overview

Quantity:	1 mg
Target:	SEC31A
Protein Characteristics:	AA 1-1230
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SEC31A protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: MKLKEIDRTA MQAWSPAQNH PIYLATGTSA QQLDATFSTN ASLEIFELDL SDPSLDMKSC  
ATFSSSHRYH KLIWGPHKMD SKGDVSGVLI AGGENGNIIIL YDPSKIIAGD KEVVIAQKDK  
HTGPVRALDV NIFQTNLVA GANESEIYIW DLNNFATPMT PGAKTQPPED ISCIAWNRRQV  
QHILASASPS GRATVWDLRK NEPIIKVSDH SNRMHCSGLA WHPDVATQMV LASEDDRLPV  
IQMWDLRFAS SPLRVLENHA RGILAVAWSM ADPELLLSCG KDAKILCSNP NTGEVLYELP  
TNTQWCFDIQ WCPRPNAVLS AASFDGRISV YSIMGGSIDG LRQKQVDKLS SSFGNLDPPFG  
TGQPLPPLQI PQQSAQHSIV LPLKKPPKWI RRPVGASFSF GGKLVTFESV AVPLQQGAEQ  
QRRQPVFISQ VVTEKDFLNR SAQLQHAVQS QGFIGYCQKK IEASQTEFEK NVWSFLKVN  
EEDSRGKYLE LLGYRKEDLG QKIALALNKV DGPDVALKDS DQVAQSDGEE SPAEEQLLG  
ERIKKEEQEC DFLPSAGGTF NISVSGDIDG LITRALLTGN FESAVDLCLH DNRMADAIL  
AIAGGQELLA QTQKKYFAKS QSKITRLITA VVMKNWREIV ESCDLKNWRE ALAAVLTYAK  
PDEFSALCDL LGTRLEREGD SLLRTQACLC YICAGNVERL VACWTKAQDG SSPLSLQDLI

EKKVILRKAV QLTQALDTNT VGALLAEKMS QYASLLAAQG SIAAALFLP DNTNQPNIVQ  
LRDRLCKAQG KPVSGQESSQ SPYERQPLSK GRPGPVAGHS QMPRVQTQQY YPHGENPPPP  
GFIMQGNVIP NPAAPLPTAP GHMPSQLPPY PQPQPYQPAQ QYSFGTGGAA AYRPQQPVAP  
PASNAYPNTP YISPVASYSG QPQMYTAQQA SSPTSSSAAS FPPPSSGASF QHGGPGAPPS  
SSAYALPPGT TGTPPAASEL PASQRTENQS FQDQASILEG PQNGWNDPPA LNRVPKKKKM  
PENFMPPVPI TSPIMNPSGD PQSQGLQQQP STPGPLSSHA SFPQQHLAGG QPFHGVQQPL  
AQTGMPPSFS KPNTEGAPGA PIGNTIQHVQ ALPTEKITKK PIPEEHLILK TTFEDLIQRC  
LSSATDPQTK RKLDDASKRL EFLYDKLREQ TLSPTIINGL HSIARSIETR NYSEGLSVHT  
HIVSTSNFSE TSAFMPVLKV VLSQASKLGV

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Sec31a 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.

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### 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

## Product Details

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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.

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Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Sterility: 0.22 µm filtered

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Endotoxin Level: Protein is endotoxin free.

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Grade: Crystallography grade

## Target Details

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Target: SEC31A

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Alternative Name: Sec31a ([SEC31A Products](#))

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Background: Component of the coat protein complex II (COPII) which promotes the formation of transport vesicles from the endoplasmic reticulum (ER). The coat has two main functions, the physical deformation of the endoplasmic reticulum membrane into vesicles and the selection of cargo molecules (By similarity). {ECO:0000250}.

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Molecular Weight: 134.5 kDa Including tag.

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UniProt: [Q3UPL0](#)

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Pathways: [ER-Nucleus Signaling](#)

## 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 guarantee though.

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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.

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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

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