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Datasheet for ABIN3135017

SEC24A Protein (AA 2-1090) (His tag)

1 Image

Overview

Quantity:	1 mg
Target:	SEC24A
Protein Characteristics:	AA 2-1090
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SEC24A protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: AQPRIPAARG AAASLQAQNG AASASGSPYT NGPVHNTLMS PQVSSSQGYD SQPPGSYPRP
 MPAKTLNPFSAQS NYGGSQG SGQTLNSPLV TSGPVLPSLH SGPVPRMPLP TSQNPAATPM
 PSGSFLPGAN PPPPLNWQYN YPSTGPQTNH FPHVAPPTLP GNPNTADHQ YVSSGDPALQ
 TSFKKPGSAL PLQNPPLPPT FQPGAPP GPP PAGGPPPSRG PAPQKTPPRA APPPSFNSAV
 NQEGITSNAN NGSTAAHNTY DEIEGGGFLA TPQLVNQNPK TSRSVGSAYP SLPPGYQNSA
 PPVAGMPPPS LSYPSPGQAF TQTPGANHL TASMSGLSLH PEGLRVV NLL QERNMLPSTP
 LQPPVPN LLE DIQKLN CNPE LFRCTLT SVP QTQALLNKAK LPLG LLLHPF KDLVQLPVVT
 SSTIVRCRSC RTYINPFVNF LDQRRWKCNL CYRVNDVPEE FMYNPLTRVY GEPHKRPEVQ
 NATIEFMAPS EYMLRPPQPP VYLFVFDVSH NAIETGYLNS VCQSLLDNLD LLPGNTRTKI
 GFITFDSTIH FYSLQEGLSQ PQMLIVSDID DVFIPMPENL LVN LNESKEL VQDLLKTL PQ
 MFTKTLETQS ALGPALQAAF KLISPTGGRM SVFQTQLPTL GVGALKPREE PNQRSSAKEI
 HLT PSTDFYK KLALDCSGQQ AAVDLFLLSG QYSDLASLGC ISRY SAGSVY YPSYHHQH N

PVQVQKLQKE LHRYLTRKIG FEAVMRIRCT KGLSIHTFHG NFFVIRSTDLL SLPNVNPDAG
YAVQMSVEES LTDTQLVSFQ SALLYTSSKG ERRIRVHTLC LPVVSTLNEV FLGADVQAIS
GLLANMAVDR SVTASLSDAR DALVNAVIDS LSAYRSSVLS GQQPGLMVPF SLRFLPLFVL
ALLKQKSFQT GTSIRLDERI FAMCQVKSQP LVHMLTTHP SLYRVDNLSD EGALNINDRT
IPQPPILQLS VEKLSRDGAF LMDAGSLLML WVGRNCSQNF LSQVLGVQNY ASIPQTMTDL
PELDTPE SAR IAAFISWLRE QRPFFPVLYV IREESLMKAA FLQSLVEDRT ESALSYEFL
LHIQQQVNK

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 Sec24a 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

Product Details

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: SEC24A

Alternative Name: Sec24a ([SEC24A Products](#))

Background: Component of the COPII coat, that covers ER-derived vesicles involved in transport from the endoplasmic reticulum to the Golgi apparatus. COPII acts in the cytoplasm to promote the transport of secretory, plasma membrane, and vacuolar proteins from the endoplasmic reticulum to the Golgi complex (By similarity). {ECO:0000250}.

Molecular Weight: 119.6 kDa Including tag.

UniProt: [Q3U2P1](#)

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

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