

Datasheet for ABIN3095248

SEC24A Protein (AA 1-1093) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	SEC24A
Protein Characteristics:	AA 1-1093
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SEC24A protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MSQPGIPASG GAPASLQAQN GAALASGSPY TNGPVQNALL SSQESVSQGY NFQLPGSYPH</p> <p>PIPAKTLNPV SGQSNYGGSQ GSGQTLNRPP VASNPVTPSL HSGPAPRMPL PASQNPATTP</p> <p>MPSSSFLPEA NLPPPLNWQY NYPSTASQTN HCPRESSQPT VSGNTSLTTN HQYVSSGYPS</p> <p>LQNSFIKSGP SVPPPLVNPPL PTTFQPGAPH GPPPAGGPPP VRALTPLTSS YRDVPQPLFN</p> <p>SAVNQEGITS NTNNGSMVVH SSYDEIEGGG LLATPQLTNK NPKMSRSVGY SYPSLPPGYQ</p> <p>NTTPPGATGV PPSSLNYPSPG PQAFTQTPLG ANHLTTSMSG LSLQPEGLRV VNLLQERNML</p> <p>PSTPLKPPVP NLHEDIQKLN CNPELFRCTL TSIPQTQALL NKAKLPLGLL LHPFKDLVQL</p> <p>PVVTSSTIVR CRSCRTYINP FVSFLDQRRW KCNLCYRVND VPPEFLYNPL TRVYGEPHRR</p> <p>PEVQNATIEF MAPSEYMLRP PQPPVYLFVF DVSHNAVETG YLNSVCQSLL DNLDLLPGNT</p> <p>RTKIGFITFD STIHFYGLQE SLSQPQMLIV SDIEDVFIPM PENLLVNLNE SKELVQDLLK</p> <p>TLPQMFTKTL ETQSALGPAL QAAFKLMSPT GGRMSVFQTQ LPTLGVGALK PREEPNHRSS</p>

AKDIHMTPTST DFYKKLALDC SGQQVAVDLF LLSGQYSDLA SLGCISRYSA GSVYYYPSYH
HQHNPVQVQK LQKELQRYLT RKIGFEAVMR IRCTKGLSIH TFHGNFFVRS TDLLSLPNVN
PDAGYAVQMS VEESLTDQL VSFQSALLYT SSKGERRIRV HTLCLPVVST LNDVFLGADV
QAISGLLANM AVDRSMTASL SDARDALVNA VIDSLSAYRS SVLSNQQPGL MVPFSLRLFP
LFVLALLKQK SFQTGTNARL DERIFAMCQV KNQPLVYLM TTHPSLYRVD NLSDEGALNI
SDRTIPQPPI LQLSVEKLSR DGAFLMDAGS VLMLWVGKNC TQNFLSQVLG VQNYASIPQP
MTDLPELDTP ESARIIFIS WLREQRPFFP ILYVIRDESP MKANFLQNMI EDRTESALSY
YEFLHIIQQQ VNK

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 try to ensure that you receive soluble 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

Product Details

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: SEC24A

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

Background: Protein transport protein Sec24A (SEC24-related protein A),FUNCTION: 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 for their transport to the Golgi complex (PubMed:20427317, PubMed:17499046, PubMed:18843296). Plays a central role in cargo selection within the COPII complex and together with SEC24B may have a different specificity compared to SEC24C and SEC24D. May package preferentially cargos with cytoplasmic DxE or LxxLE motifs and may also recognize conformational epitopes (PubMed:17499046, PubMed:18843296). {ECO:0000269|PubMed:17499046, ECO:0000269|PubMed:18843296, ECO:0000269|PubMed:20427317}.

Molecular Weight: 119.7 kDa

UniProt: [O95486](#)

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: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational

Application Details

modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months