

Datasheet for ABIN3091922

COPA Protein (AA 1-1224) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	COPA
Protein Characteristics:	AA 1-1224
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This COPA protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MLTKFETKSA RVKGLSFHPK RPWILTSLHN GVIQLWDYRM CTLIDKFDEH DGPVRGIDFH KQQPLFVSGG DDYKIKVWNY KLRRCLFTLL GHLDYIRTTF FHHEYPWILS ASDDQTIRVW NWQSRTCVCV LTGHNHYVMC AQFHPTEDLV VSASLDQTVR VWDISGLRKK NLSPGAVESD VRGITGVDLF GTTDAVVKHV LEGHDRGVNW AAFHPTMPLI VSGADDRQVK IWRMNESKAW EVDTCRGHYN NVSCAVFHPR QELILSNSED KSIRVWDMRK RTGVQTFRRD HDRFWVLAHH PNLNLFAAGH DGGMIVFKLE RERPAYAVHG NMLHYVKDRF LRQLDFNSSK DVAVMQLRSG SKFPVFNMSY NPAENAVLLC TRASNLNST YDLYTIPKDA DSQNPDAPEG KRSSGLTAVW VARNRFAVLD RMHSLLIKNL KNEITKKVQV PNCDEIFYAG TGNLLLRDAD SITLFDVQQK RTLASVKISK VKYVIWSADM SHVALLAKHA IVICNRKLDA LCNIHENIRV KSGAWDESGV FIYTTSNHIK YAVTTGDHGI IRTLDLPIYV TRVKGNVYVC LDRECRPRVL TIDPTEFKFK LALINRKYDE VLHMVRNAKL VGQSIIAYLQ KKGYPEVALH FVKDEKTRFS LALECGNIEI ALEAAKALDD KNCWEKLGVEV ALLQGNHQIV EMCYQRTKNF DKLSFLYLIT GNLEKLRKMM
-----------	--

KIAEIRKDMS GHYQNALYLG DVSERVRILK NCGQKSLAYL TAATHGLDEE AESLKETFDP
EKETIPDIDP NAKLLQPPAP IMPLDTNWPL LTVSKGFFEG TIASKGKGGA LAADIDIDTV
GTEGWGEDAE LQLEDEGFVE ATEGLGDDAL GKGQEEGGGW DVEEDLELPP ELDISPGAAG
GAEDGFFVPP TKGTSPTQIW CNNSQLPVDH ILAGSFETAM RLLHDQVGVI QFGPYKQLFL
QTYARGRTTY QALPCLPSMY GYPNRNWKDA GLKNGVPAVG LKLNDLIQRL QLCYQLTTVG
KFEEAVEKFR SILLSVPLL VDNKQEIAEA QQLITICREY IVGLSVETER KKLPKETLEQ
QKRICEMAAY FTHSNLQPVH MILVLRTALN LFFKLKNFKT AATFARRLLE LGPKPEVAQQ
TRKILSACEK NPTDAYQLNY DMHNPFDICA ASYRPIYRGK PVEKCPLSGA CYSPEFKGQI
CRVTTVTEIG KDVIGLRISP LQFR

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

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!

Product Details

Concentration:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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:

>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Grade:

Crystallography grade

Target Details

Target:

COPA

Alternative Name:

COPA ([COPA Products](#))

Background:

Coatomer subunit alpha (Alpha-coat protein) (Alpha-COP) (HEP-COP) (HEPCOP) [Cleaved into: Xenin (Xenopsin-related peptide), Proxenin],FUNCTION: The coatomer is a cytosolic protein complex that binds to dilysine motifs and reversibly associates with Golgi non-clathrin-coated vesicles, which further mediate biosynthetic protein transport from the ER, via the Golgi up to the trans Golgi network. Coatomer complex is required for budding from Golgi membranes, and is essential for the retrograde Golgi-to-ER transport of dilysine-tagged proteins. In mammals, the coatomer can only be recruited by membranes associated to ADP-ribosylation factors (ARFs), which are small GTP-binding proteins, the complex also influences the Golgi structural integrity, as well as the processing, activity, and endocytic recycling of LDL receptors (By similarity). {ECO:0000250}., FUNCTION: Xenin stimulates exocrine pancreatic secretion. It inhibits pentagastrin-stimulated secretion of acid, to induce exocrine pancreatic secretion and to affect small and large intestinal motility. In the gut, xenin interacts with the neurotensin receptor.

Target Details

Molecular Weight:	138.3 kDa
UniProt:	P53621
Pathways:	Hormone Activity

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



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