Datasheet for ABIN3136483

# COPA Protein (AA 1-1224) (Strep Tag)

Go to Product page

## Overview

| | |
|---|---|
| Quantity: | 250 µg |
| Target: | COPA |
| Protein Characteristics: | AA 1-1224 |
| Origin: | Mouse |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This COPA protein is labelled with Strep Tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS) |

## Product Details

| | |
|---|---|
| Brand: | AliCE® |
| Sequence: | MLTKFETKSA RVKGLSFHPK RPWILTSLHN GVIQLWDYRM CTLIDKFDEH DGPVRGIDFH KQQPLFVSGG DDYKIKVWNY KLRRCLFTLL GHLDYIRTTF FHHEYPWILS ASDDQTIRVW NWQSRTCVCV LTGHNHYVMC AQFHPSEDLV VSASLDQTVR VWDISGLRKK NLSPGAVESD VRGITGVDLF GTTDAVVKHV LEGHDRGVNW AAFHPTMPLI VSGADDRQVK IWRMNESKAW EVDTCRGHYN NVSCAVFHPR QELILSNSED KSIRVWDMSK RTGVQTFRRD HDRFWVLAAH PNLNLFAAGH DGGMIVFKLE RERPAYAVHG NMLHYVKDRF LRQLDFNSSK DVAVMQLRSG SKFPVFNMSY NPAENAVLLC TRASNLENST YDLYTIPKDA DSQNPDAPEG KRSSGLTAVW VARNRFAVLD RMHSLLIKNL KNEITKKIQV PNCDEIFYAG TGNLLLRDAD SITLFDVQQK RTLASVKISK VKYVIWSADM SHVALLAKHA IVICNRKLDA LCNIHENIRV KSGAWDESGV FIYTTSNHIK YAVTTGDHGI IRTLDLPIYV TRVKGNNVYC LDRECRPRVL TIDPTEFKFK LALINRKYDE VLHMVRNAKL VGQSIIAYLQ KKGYPEVALH FVKDEKTRFS LALECGNIEI |

ALEAAKALDD KNCWEKLGEV ALLQGNHQIV EMCYQRTKNF DKLSFLYLIT GNLEKLRKMM KIAEIRKDMS GHYQNALYLG DVSERVRILK NCGQKSLAYL SAATHGLDEE AESLKETFDP EKETIPDIDP NAKLLQPPAP IMPLDTNWPL LTVSKGFFEG SIASKGKGGA LAADIDIDTV GTEGWGEDAE LQLDEDGFVE APEGLGEDVL GKGQEEGGGW DVEEDLELPP ELDVPSGVSG SAEDGFFVPP TKGTSPTQIW CNNSQLPVDH ILAGSFETAM RLLHDQVGVI QFGPYKQLFL QTYARGRTTY QALPCLPSMY SYPNRNWKDA GLKNGVPAVG LKLNDLIQRL QLCYQLTTVG KFEEAVEKFR SILLSVPLLV VDNKQEIAEA QQLITICREY IVGLCMEIER KKLPKETLDQ QKRICEMAAY FTHSNLQPVH MILVLRTALN LFFKLKNFKT AATFARRLLE LGPKPEVAQQ TRKILSACEK NPTDACQLNY 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 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!

## Product Details

| | |
|---|---|
| | Concentration:<br>• The concentration of our recombinant proteins is measured using the absorbance at 280nm.<br>• The protein's absorbance will be measured against its specific reference buffer.<br>• 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: | COPA |
| Alternative Name: | Copa (COPA Products) |
| Background: | Coatomer subunit alpha (Alpha-coat protein) (Alpha-COP) [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 (By similarity). {ECO:0000250}. |
| Molecular Weight: | 138.4 kDa |
| UniProt: | Q8CIE6 |
| 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: | 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.<br>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.<br>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 |