Datasheet for ABIN3091922

COPA Protein (AA 1-1224) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	COPA
Protein Characteristics:	AA 1-1224
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This COPA protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), 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 KSIRVWDMSK RTGVQTFRRD HDRFWVLAAH PNLNLFAAGH DGGMIVFKLE RERPAYAVHG NMLHYVKDRF LRQLDFNSSK DVAVMQLRSG SKFPVFNMSY NPAENAVLLC TRASNLENST YDLYTIPKDA DSQNPDAPEG KRSSGLTAVW VARNRFAVLD RMHSLLIKNL KNEITKKVQV 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 TAATHGLDEE AESLKETFDP EKETIPDIDP NAKLLQPPAP IMPLDTNWPL LTVSKGFFEG TIASKGKGGA LAADIDIDTV GTEGWGEDAE LQLDEDGFVE ATEGLGDDAL GKGQEEGGGW DVEEDLELPP ELDISPGAAG GAEDGFFVPP TKGTSPTQIW CNNSQLPVDH ILAGSFETAM RLLHDQVGVI QFGPYKQLFL QTYARGRTTY QALPCLPSMY GYPNRNWKDA GLKNGVPAVG LKLNDLIQRL QLCYQLTTVG KFEEAVEKFR SILLSVPLLV VDNKQEIAEA QQLITICREY IVGLSVETER KKLPKETLEQ QKRICEMAAY FTHSNLQPVH MILVLRTALN LFFKLKNFKT AATFARRLLE LGPKPEVAQQ TRKILSACEK NPTDAYQLNY DMHNPFDICA ASYRPIYRGK PVEKCPLSGA CYSPEFKGQI CRVTTVTEIG KDVIGLRISP LQFR **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. • Human COPA 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 receival 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

Product Details

	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:	>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:	COPA
Alternative Name:	COPA (COPA Products)
Background:	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}., 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.
Molecular Weight:	139.3 kDa Including tag.
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 gurantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be

Application Details

	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 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