

Datasheet for ABIN3136041

CAMSAP3 Protein (AA 1-1252) (His tag)



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1 Image

Overview

| | |
|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | CAMSAP3 |
| Protein Characteristics: | AA 1-1252 |
| Origin: | Mouse |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This CAMSAP3 protein is labelled with His tag. |
| Application: | Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

Product Details

Sequence: MVEAAPAGSG PLRRTFLVPE IKSLDQYDFS RAKAAASLAW VLRAAFGGAE HVPELWEPF
 YTDQYAQEHV KPPVTRLLLS AELYCRAWRQ ALPQLESPSPS PSALLALLAR RGTVPSPLEPH
 PVREADLKHQ PILMGAHLAV IDALMVAFSF EWTKTLPGPL ALSSLEHKLL FWVDTTVRRL
 QEKTEQEAQ RASPAAPLDG ASPAQPSIRY RKDRAIARRA PCFPNVTTLQ DLASGAALAA
 TIHCYCPQLL RLEEVCLKDP MSVADSLYNL QLVQDFCASH LPRGCPLSLE DLLYVPPPLK
 VNLVLLAEM YMCFEVLKPD FVQAKDLPDG HAVSPRNTET VPSQNNSSGSS SPVFNFRHPL
 LSPGGPQSPL RGSTGSLKSS PSMHMEALG KAWNRQLSRP LSQAVSFSTP FGLDSDVDVV
 MGDVLLRSV SDSLGPVPRP VSTSSRNAQ PAGESDLPT IEEALQIIHS AEPRLPDGA
 ADGSFYHSP EGLSKPPLSP YPEGASKPL SDRLNKAPIY ISHPENPSKS SPCSTGEILK
 PPPPSEGPSK AVASSPAANN SEVKMTSFAE RKKQLVKAEA ESGLSPTST PVAPEALSSE
 MSELGARLEE KRRAIEAQKR RIEAIFAKHR QRLGKSAFLQ VQPREAAGEA EEEAELGSVP
 GGERPAGEGQ GEPSLRHKSX TFSPDLGPVP PEGLDGYNRA VSKLSAALSS LQRDMQRLTD

QQQRLLAPPE APGPAPPPAA WVIPGPATGP KAASPSARR APAARRSPGP GPSPTPRSPK
HARPAELKLA PLTRVLTTPH DVDSLPHLRK FSPSQVPVQT RSSILLSEGT PPEEPTTKPA
LIEIPLASLG EPAADEEGDG SPPGAEDSLE EEASSEGEPR SGLGFFYKDE DKPEDEMAQK
RASLLERQQR RVEEARRRKQ WQEAKEQKR EEAARLAQEA PGLAFTTPVV ASAAPVATLA
PTTRAMAPAE EEVGPRRGDF TRLEYERRAQ LKLMDDLKLV LRPRASGTGG PGRGRRATR
PRSGCCDDSA LARSPARGLL GSRLSKVYSQ STLSLSTVAN EAPNNLGVKR PTSRAPSPSG
LMSPSRLPGS RERDWENGSN ASSPASVPEY TGPRLYKEPS AKSNKFIHN ALSHCCLAGK
VNEPQKNRIL EEIEKSKANH FLILFRDSSC QFRALYTLTG ETEELSRLAG YGPRTVTPAM
VEGIYKYNDS RKRFTQIPAK TMSMSVDAFT IQGHLWQSKK PTPPKGGGT PK

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 Camsap3 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

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: CAMSAP3

Alternative Name: Camsap3 ([CAMSAP3 Products](#))

Background: Microtubule minus-end binding protein that acts as a regulator of non-centrosomal microtubule dynamics and organization. Specifically required for the biogenesis and the maintenance of zonula adherens by anchoring the minus-end of microtubules to zonula adherens and by recruiting the kinesin KIFC3 to those junctional sites. May regulate the nucleation and the polymerization of microtubules. Indirectly, through the microtubule cytoskeleton, may regulate the organization of cellular organelles including the Golgi and the early endosomes. {ECO:0000269|PubMed:23169647}.

Molecular Weight: 136.1 kDa Including tag.

UniProt: [Q80VC9](#)

Pathways: [Cell-Cell Junction Organization, Maintenance of Protein Location](#)

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.

Application Details

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