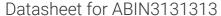
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Dynactin 1 Protein (DCTN1) (AA 1-1281) (His tag)



Image



Overview

| Quantity: | 1 mg |
|-------------------------------|--|
| Target: | Dynactin 1 (DCTN1) |
| Protein Characteristics: | AA 1-1281 |
| Origin: | Mouse |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This Dynactin 1 protein is labelled with His tag. |
| Application: | ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS) |

Product Details

Sequence:

MAQSRRHMSS RTPSGSRMST EASARPLRVG SRVEVIGKGH RGTVAYVGAT LFATGKWVGV ILDEAKGKND GTVQGRKYFT CDEGHGIFVR QSQIQVFEDG ADTTSPETPD SSASKVLKRE GADAAAKTSK LRGLKPKKAP TARKTTTRRP KPTRPASTGV AGPSSSLGPS GSASAGELSS SEPSTPAQTP LAAPIIPTPA LTSPGAAPPL PSPSKEEEGL RAQVRDLEEK LETLRLKRSE DKAKLKELEK HKIQLEQVQE WKSKMQEQQA DLQRRLKEAR KEAKEALEAK ERYMEEMADT ADAIEMATLD KEMAEERAES LQQEVEALKE RVDELTTDLE ILKAEIEEKG SDGAASSYQL KQLEEQNARL KDALVRMRDL SSSEKQEHVK LQKLMEKKNQ ELEVVRQQRE RLQEELSQAE STIDELKEQV DAALGAEEMV EMLTDRNLNL EEKVRELRET VGDLEAMNEM NDELQENARE TELELREQLD MAGARVREAQ KRVEAAQETV ADYQQTIKKY RQLTAHLQDV NRELTNQQEA SVERQQPPP ETFDFKIKFA ETKAHAKAIE MELRQMEVAQ ANRHMSLLTA FMPDSFLRPG GDHDCVLVLL LMPRLICKAE LIRKQAQEKF DLSENCSERP GLRGAAGEQL SFAAGLVYSL SLLQATLHRY EHALSQCSVD VYKKVGSLYP EMSAHERSLD FLIELLHKDQ LDETVNVEPL

TKAIKYYQHL YSIHLAEQPE DSTMQLADHI KFTQSALDCM GVEVGRLRAF LQGGQEATDI ALLLRDLETS CSDTRQFCKK IRRRMPGTDA PGIPAALAFG SQVSDTLLDC RKHLTWVVAV LQEVAAAAAQ LIAPLAENEG LPVAALEELA FKASEQIYGS PSSSPYECLR QSCTILISTM NKLATAMQEG EYDAERPPSK PPPVELRAAA LRAEITDAEG LGLKLEDRET VIKELKKSLK IKGEELSEAN VRLSLLEKKL DSAAKDADER IEKVQTRLDE TQTLLRKKEK DFEETMDALQ ADIDQLEAEK AELKQRLNSQ SKRTIEGLRG PPPSGIATLV SGIAGEEPQR GGAPGQAPGA LPGPGLVKDS PLLLQQISAM RLHISQLQHE NSILRGAQMK ASLAALPPLH VAKLSLPPHE GPGGNLVAGA LYRKTSQLLE KLNQLSTHTH VVDITRSSPA AKSPSAQLME QVAQLKSLSD TIEKLKDEVL KETVTQRPGA TVPTDFATFP SSAFLRAKEE QQDDTVYMGK VTFSCAAGLG QRHRLVLTQE QLHQLHSRLI S

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 Dctn1 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

| 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: Dynactin 1 (DCTN1) Alternative Name: Dctn1 (DCTN1) Alternative Name: Dctn1 (DCTN1 Products) Background: Required for the cytoplasmic dynein-driven retrograde movement of vesicles and organel along microtubules. Dynein-dynactin interaction is a key component of the mechanism of axonal transport of vesicles and organelles. Molecular Weight: 142.6 kDa Including tag. UniProt: 008788 Pathways: M Phase, ER-Nucleus Signaling Application Details Application Notes: In addition to the applications listed above we expect the protein to work for functional states as well. As the protein has not been tested for functional studies yet we cannot offer a guithough. 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 highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a highly likely that the | | |
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| Endotoxin Level: Protein is endotoxin free. Grade: Crystallography grade Target Details Target: Dynactin 1 (DCTN1) Alternative Name: Dctn1 (DCTN1 Products) Background: Required for the cytoplasmic dynein-driven retrograde movement of vesicles and organel along microtubules. Dynein-dynactin interaction is a key component of the mechanism of axonal transport of vesicles and organelles. Molecular Weight: 142.6 kDa Including tag. UniProt: O08788 Pathways: M Phase, ER-Nucleus Signaling Application Details Application Notes: In addition to the applications listed above we expect the protein to work for functional strass well. As the protein has not been tested for functional studies yet we cannot offer a guithough. 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 himolecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all poss options with you in detail to assure that you receive your protein of interest. | Purity: | >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. |
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| recombinant protein with the default tag will be insoluble our protein lab may suggest a h molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all poss options with you in detail to assure that you receive your protein of interest. | 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. |
| Restrictions: For Research Use only | Comment: | 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 |
| | 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

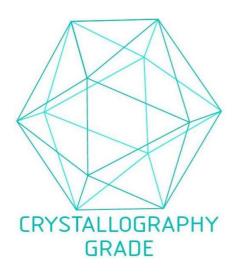


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process