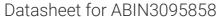
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THO Complex 2 Protein (THOC2) (AA 1-1593) (His tag)



Image



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Overview

Quantity:	1 mg
Target:	THO Complex 2 (THOC2)
Protein Characteristics:	AA 1-1593
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This THO Complex 2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

MAAAAVVVPA EWIKNWEKSG RGEFLHLCRI LSENKSHDSS TYRDFQQALY ELSYHVIKGN
LKHEQASNVL SDISEFREDM PSILADVFCI LDIETNCLEE KSKRDYFTQL VLACLYLVSD
TVLKERLDPE TLESLGLIKQ SQQFNQKSVK IKTKLFYKQQ KFNLLREENE GYAKLIAELG
QDLSGSITSD LILENIKSLI GCFNLDPNRV LDVILEVFEC RPEHDDFFIS LLESYMSMCE
PQTLCHILGF KFKFYQEPNG ETPSSLYRVA AVLLQFNLID LDDLYVHLLP ADNCIMDEHK
REIAEAKQIV RKLTMVVLSS EKMDEREKEK EKEEEKVEKP PDNQKLGLLE ALLKIGDWQH
AQNIMDQMPP YYAASHKLIA LAICKLIHIT IEPLYRRVGV PKGAKGSPVN ALQNKRAPKQ
AESFEDLRRD VFNMFCYLGP HLSHDPILFA KVVRIGKSFM KEFQSDGSKQ EDKEKTEVIL
SCLLSITDQV LLPSLSLMDC NACMSEELWG MFKTFPYQHR YRLYGQWKNE TYNSHPLLVK
VKAQTIDRAK YIMKRLTKEN VKPSGRQIGK LSHSNPTILF DYILSQIQKY DNLITPVVDS
LKYLTSLNYD VLAYCIIEAL ANPEKERMKH DDTTISSWLQ SLASFCGAVF RKYPIDLAGL
LQYVANQLKA GKSFDLLILK EVVQKMAGIE ITEEMTMEQL EAMTGGEQLK AEGGYFGQIR

NTKKSSQRLK DALLDHDLAL PLCLLMAQQR NGVIFQEGGE KHLKLVGKLY DQCHDTLVQF GGFLASNLST EDYIKRVPSI DVLCNEFHTP HDAAFFLSRP MYAHHISSKY DELKKSEKGS KQQHKVHKYI TSCEMVMAPV HEAVVSLHVS KVWDDISPQF YATFWSLTMY DLAVPHTSYE REVNKLKVQM KAIDDNQEMP PNKKKKEKER CTALQDKLLE EEKKQMEHVQ RVLQRLKLEK DNWLLAKSTK NETITKFLQL CIFPRCIFSA IDAVYCARFV ELVHQQKTPN FSTLLCYDRV FSDIIYTVAS CTENEASRYG RFLCCMLETV TRWHSDRATY EKECGNYPGF LTILRATGFD GGNKADQLDY ENFRHVVHKW HYKLTKASVH CLETGEYTHI RNILIVLTKI LPWYPKVLNL GQALERRVHK ICQEEKEKRP DLYALAMGYS GQLKSRKSYM IPENEFHHKD PPPRNAVASV QNGPGGGPSS SSIGSASKSD ESSTEETDKS RERSQCGVKA VNKASSTTPK GNSSNGNSGS NSNKAVKEND KEKGKEKEK KKEKTPATTP EARVLGKDGK EKPKEERPNK DEKARETKER TPKSDKEKEK FKKEEKAKDE KFKTTVPNAE SKSTQERERE KEPSRERDIA KEMKSKENVK GGEKTPVSGS LKSPVPRSDI PEPEREQKRR KIDTHPSPSH SSTVKDSLIE LKESSAKLYI NHTPPPLSKS KEREMDKKDL DKSRERSRER EKKDEKDRKE RKRDHSNNDR EVPPDLTKRR KEENGTMGVS KHKSESPCES PYPNEKDKEK NKSKSSGKEK GSDSFKSEKM DKISSGGKKE SRHDKEKIEK KEKRDSSGGK EEKKHHKSSD KHR

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 THOC2 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

Product Details

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 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: THO Complex 2 (THOC2) Alternative Name: THOC2 (THOC2 Products) Background: Required for efficient export of polyadenylated RNA and spliced mRNA. Acts as component of the THO subcomplex of the TREX complex which is thought to couple mRNA transcription, processing and nuclear export, and which specifically associates with spliced mRNA and not with unspliced pre-mRNA. TREX is recruited to spliced mRNAs by a transcription-independent mechanism, binds to mRNA upstream of the exon-junction complex (EJC) and is recruited in a splicing- and cap-dependent manner to a region near the 5' end of the mRNA where it functions in mRNA export to the cytoplasm via the TAP/NFX1 pathway. The TREX complex is essential for the export of Kaposi's sarcoma-associated herpesvirus (KSHV) intronless mRNAs and infectious virus production. THOC2 (and probably the THO complex) is involved in releasing mRNA from nuclear speckle domains. Required for NXF1 localization to the nuclear rim. Plays a role for proper neuronal development. {ECO:0000269|PubMed:11979277, ECO:0000269|PubMed:15833825, ECO:0000269|PubMed:15998806, ECO:0000269|PubMed:17190602, ECO:0000269|PubMed:18974867, ECO:0000269|PubMed:22893130, ECO:0000269|PubMed:23222130,

ECO:0000269|PubMed:26166480}.

Target Details

Molecular Weight:	183.7 kDa Including tag.
UniProt:	Q8NI27

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 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

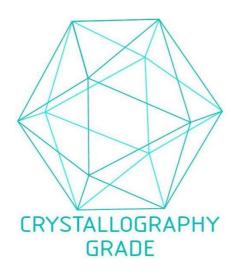


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process