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Datasheet for ABIN3135868

INO80 Protein (AA 1-1559) (His tag)

1 Image

Overview

Quantity:	1 mg
Target:	INO80
Protein Characteristics:	AA 1-1559
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This INO80 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MASELGAGDD GSSTELAKPL YLQYLERALR LDHFLRQTSA IFNRNISSDD SEDGLDDNNP
LLPESGDPLI QVKEEPPNSL LGETSGASSS GLLNPYSLNG VLQSESKSDK GNLYNFSKLK
KSRKWLKSIL LSEDESSEADS QSEDNDDEEE ELSLSREELH NMLRLHKYKK LHQNKYSKDK
ELQQYQYISA GLLSTYDPFY EQQRHLLGPK KKKFKEDKKL KAKLKKVKKK RRRDEEFSSE
ESPRHHHHQT KVFAKFSHDA PPPGTKKKHL SIEQLNARRR KVWLSIVKKE LPKANKQKSS
ARNLFLTNSR KLAHQCMKEV RRAALQAQKN CKETLPRARR LTKEMLLYWK KYEKVEKEHR
KRAEKEALEQ RKLDEEMREA KRQQRKLNFL ITQTELYAHF MSRKRDMGHD GIQEEILRKL
EDSSTQRQID IGGGVVVNIT QEDYDSNHFK AQALKNAENA YHIHQARTRS FDEDAKESRA
AALRAADKSG SGFGESYSLA NPSIRAGEDI PQPTIFNGKL KGYQLKGMNW LANLYEQGIN
GILADEMGLG KTVQSIALLA HLAERENIWG PFLIISPAST LNNWHQEFTR FVPKFKVLPY
WGNPHDRKVI RRFWSQKTLY TQDAPFHVVI TSYQLVVQDV KYFQRVKWQY MVLDEAQALK
SSSSVRWKIL LQFQCRNLL LTGTPIQNTM AELWALLHFI MPTLFDSHEE FNEWFSKDIE

SHAENKSAID ENQLSRLHMI LKPFMLRRIK KDVENELSDK IEILTYCQLT SRQKLLYQAL
KNKISIEDLL QSSMGSTQQA QNTTSSLMNL VMQFRKVCNH PELFERQETW SPFHISLKPY
EISKFIYRHG QIRVFNHSRD RWLKVLLSPF APDYIQQSLF HRKGINEGSC FSFLRFIDVS
PAEMANMLQ GLLARWLALF LSLKASYRLH QLRSWAEPDG TSHQSYLRNK DFLLGVDFPL
SFPNLCSCPL LKSLVFSSHC KAVSGYSDHV VHQRSSATSS LRCCLLTEL P SFLCVASPRV
TAVPLDSYCN DRSAEYERGV LKEGGSLAAK QCLLNGAPEL ATDWLSRRSQ FFPEPAGLL
SIRPQNGWSF IRIPGKESLI TDSGKLYALD VLLTRLKSQG HRVLIYSQMT RMIDLLEEYM
VYRKHTYMRL DGSSKISERR DMVADFQTRN DIFVLLSTR AGGLGINLTA ADTVIFYDSD
WNPTVDQQAM DRAHRLGQTK QVTVYRLICK GTIEERILQR AKEKSEIQRM VISGGNFKPD
TLKPKEVSL LLDDEELEKK LRLRQEEKRQ QEESNRVKER KRKREKYAEK KKKEDELDGK
RRKEGVNLVI PFVPSADNSN LSADGDDFSI SVDSAMPSPF SEISSSELH TGSIPPDESS
SDMLVIVDDP ASSAPQSRAT NSPASITGSV SDTVNGISIQ EVPAAGRHS ARSRGRPKGS
GSTAKGAGKG RSRKSTAGSA AAMAGAKAGA AAASAAAYAA YGYNVSKGIS ASSPLQTSIV
RPAGLADFGP SSASSPLSSP LNKGNIPGT PKSLHMTSSL ASDSLIRKQG KGTNPSSGR

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 Ino80 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.

Product Details

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: INO80

Alternative Name: Ino80 ([INO80 Products](#))

Background: DNA helicase and probable main scaffold component of the chromatin remodeling INO80 complex which is involved in transcriptional regulation, DNA replication and probably DNA repair. Recruited by YY1 to YY1-activated genes, where it acts as an essential coactivator. Binds DNA. In vitro, has double-stranded DNA-dependent ATPase activity. Involved in UV-damage excision repair, DNA replication and chromosome segregation during normal cell division cycle (By similarity). {ECO:0000250}.

Molecular Weight: 177.5 kDa Including tag.

UniProt: [Q6ZPV2](#)

Pathways: [Positive Regulation of Response to DNA Damage Stimulus](#)

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

Application Details

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