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Datasheet for ABIN3135868  
**INO80 Protein (AA 1-1559) (Strep Tag)**

## Overview

Quantity:	1 mg
Target:	INO80
Protein Characteristics:	AA 1-1559
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This INO80 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Sequence:	MASELGAGDD GSSTELAKPL YLQYLERALR LDHFLRQTSA IFNRNISSDD SEDGLDDNNP LLPESGDPLI QVKEEPPNSL LGETSGASSS GLLNPYSLNG VLQSESKSDK GNLYNFSKLLK KSRKWLKSIL LSEDESSEADS QSEDNDDEEE ELSLSREELH NMLRLHKYKK LHQNKYSKDK ELQQYQYYSA GLLSTYDPFY EQQRHLLGPK KKKFKEDKKL KAKLKKVKKK RRRDEEFSSE ESPRHHHHQT KVFAKFSHDA PPPGTKKKHL SIEQLNARRR KWLVSIVKKE LPKANKQKSS ARNLFLTNSR KLAHQCMKEV RRAALQAQKN CKETLPRARR LTKEMLLYWK KYEKVEKEHR KRAEKEALEQ RKLDEEMREA KRQQRKLNFL ITQTELYAHF MSRKRDMGHD GIQEEILRKL EDSSTQRQID IGGGVVVNIT QEDYDSNHFK AQALKNAENA YHIHQARTS FDEDAKESRA AALRAADKSG SGFGESYSLA NPSIRAGEDI PQPTIFNGKL KGYQLKGMNW LANLYEQGIN GILADEMGLG KTVQSIALLA HLAERENIWG PFLIISPAST LNNWHQEFTF FVPKFKVLPY WGNPHDRKVI RRFWSQKTLY TQDAPFHVVI TSYQLVVQDV KYFQRVKWQY MVLDEAQALK SSSSVRWKIL LQFQCRNRL LTGTPIQNTM AELWALLHFI MPTLFDSHEE FNEWFSKDIE
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SHAENKSAID ENQLSRLHMI LKPFMLRRIK KDVENELSDK IEILTYCQLT SRQKLLYQAL  
KNKISIEDLL QSSMGSTQQA QNTTSSLMNL VMQFRKVCNH PELFERQETW SPFHISLKPV  
EISKFIYRHG QIRVFNHSRD RWLKVLLSPF APDYIQQSLF HRKGINEGSC FSFLRFIDVS  
PAEMANLMLQ GLLARWLALF LSLKASYRLH QLRSWAEPDG TSHQSYLRNK DFLLGVDFPL  
SFPNLCSCPL LKSLVFSSHC KAVSGYSDHV VHQRSSATSS LRCCLLTCLP SFLCVASPRV  
TAVPLDSYCN DRSAEYERGV LKEGGSLAAK QCLLNGAPEL ATDWLSRRSQ FFPEPAGGLL  
SIRPQNGWSF IRIPGKESLI TDGKLYALD VLLTRLKSQG HRVLIYSQMT RMIDLLEEYM  
VYRKHTYMRL DGSSKISERR DMVADFQTRN DIFVLLSTR AGGLGINLTA ADTVIFYDSD  
WNPTVDQQAM DRAHRLGQTK QVTVYRLICK GTIEERILQR AKEKSEIQRV VISGGNFKPD  
TLKPKEVSL LLDDEELEKK LRLRQEEKRQ QEESNRVKER KRKREKYAEK KKKDELDGK  
RRKEGVNLVI PFVPSADNSN LSADGDDSF SVDSAMPSPF SEISSSELH TGSIPPDESS  
SDMLVIVDDP ASSAPQSRAT NSPASITGSV SDTVNGISIQ EVPAAGRHS ARSRGRPKGS  
GSTAKGAGKG RSRKSTAGSA AAMAGAKAGA AAASAAAYAA YGYNVSKGIS ASSPLQTSIV  
RPAGLADFGP SSASSPLSSP LNKGNIPGT PKSLHMTSSL ASDSLIRKQG KGTNPSSGR

**Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

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### Characteristics:

#### Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

#### Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

## Product Details

- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

### Concentration:

- 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.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):  1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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:	≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

## Target Details

Target:	INO80
Alternative Name:	Ino80 ( <a href="#">INO80 Products</a> )
Background:	Chromatin-remodeling ATPase INO80 (EC 3.6.4.-) (DNA helicase-related INO80 complex homolog 1) (DNA helicase-related protein INO80),FUNCTION: ATPase component of the chromatin remodeling INO80 complex which is involved in transcriptional regulation, DNA replication and DNA repair. Binds DNA. As part of the INO80 complex, remodels chromatin by shifting nucleosomes. Regulates transcription upon recruitment by YY1 to YY1-activated genes, where it acts as an essential coactivator. Involved in UV-damage excision DNA repair. The contribution to DNA double-strand break repair appears to be largely indirect through

## Target Details

	transcriptional regulation. Involved in DNA replication. Required for microtubule assembly during mitosis thereby regulating chromosome segregation cycle. {ECO:0000250 UniProtKB:Q9ULG1}.
Molecular Weight:	176.5 kDa
UniProt:	<a href="#">Q6ZPV2</a>
Pathways:	<a href="#">Positive Regulation of Response to DNA Damage Stimulus</a>

## 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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.</p> <p>During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!</p>
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)