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Datasheet for ABIN3134115

## NEDD4 Protein (AA 1-887) (His tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	NEDD4
Protein Characteristics:	AA 1-887
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NEDD4 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, Crystallization (Crys), SDS-PAGE (SDS)

#### Product Details

Sequence: MSSDMAADES EAPVLSSEDEV WEFCLDKTED GGGSPGSDVT DTCEPPCGCW ELNPNSLEEE  
HVLFTADPYL ELHNDTRV RVKVIAGIGL AKKDILGASD PYVRVTLYDP MSGILTSVQT  
KTIKSLNPK WNEEILFRVL PQRHRILFEV FDENRLTRDD FLGQVDVPLY PLPTENPRME  
RPYTFKDFVL HPRSHKSRVK GYLRLKMTYL PKNGSEDENA DQAELEPGW VVLDQPDAAT  
HLPHPPEPSP LPPGWEERQD VLGRTYYVNH ESRRTQWKRP SPDDDLTDED NDDMLQAQR  
AFTTRRQISE DVDGPDNRES PENWEIVRED ENTEYSGQAV QSPPSGHIDV QTHLAEFNT  
RLAVCGNPAT SQPVTSSNHS SRGGLQTCI FEEQPTLPVL LPTSSGLPPG WEEKQDDRGR  
SYYVDHNSKT TTWSKPTMQD DPRSKIPAH LRGKTDNDLG PLPPGWEERT HTDGRVFFIN  
HNIKKTQWED PRLQNVAITG PAVPYSRDYK RKYEFFRRKL KKQTDIPNKF EMKLRRANIL  
EDSYRRIMGV KRADLLKARL WIEFDGEKGL DYGGVAREWF FLISKEMFNP YYGLFEYSAT  
DNYTLQINPN SGLCNEDHLS YKFIGRVAG MAVYHGKLLD GFFIRPFYKM MLQKLITLHD  
MESVDSEYYS SLRWILENDP TELDLRFIID EELFGQTHQH ELKTGGSEIV VTNKNKKEYI

YLVIQWRFVN RIQKQMAAFK EGGLELIPQD LIKIFDENEL ELLMCGLGDV DVNDWREHTK  
YKNGYSMNHQ VIHWFVKAVW MMDSEKRIRL LQFVTGTSRV PMNGFAELYG SNGPQSFTVE  
QWGTPDKLPR AHTCFNRLDL PPYESFDELW DKLQMAIENT QGFDGVD

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Nedd4 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.

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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.

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Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Sterility:

0.22 µm filtered

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## Product Details

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Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

## Target Details

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Target: NEDD4

Alternative Name: Nedd4 ([NEDD4 Products](#))

Background: E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Specifically ubiquitinates 'Lys-63' in target proteins (By similarity). Monoubiquitinates IGF1R at multiple sites, thus leading to receptor internalization and degradation in lysosomes. Ubiquitinates FGFR1, leading to receptor internalization and degradation in lysosomes. Involved in ubiquitination of ERBB4 intracellular domain E4ICD1 (PubMed:19193720). Predominantly involved in ubiquitination of membrane bound forms of ERBB4 rather than processed precursors and intermediate membrane-anchored 80 kDa fragments (m80HER4), with a lesser role in ubiquitination of ERBB4 intracellular domain E4ICD1 (PubMed:19047365). Promotes ubiquitination of RAPGEF2. Involved in the pathway leading to the degradation of VEGFR-2/KDFR, independently of its ubiquitin-ligase activity. Part of a signaling complex composed of NEDD4, RAP2A and TNIK which regulates neuronal dendrite extension and arborization during development. Ubiquitinates TNK2 and regulates EGF-induced degradation of EGFR and TNF2 (By similarity). Involved in the ubiquitination of ebola virus VP40 protein and this ubiquitination plays a role in facilitating viral budding. Ubiquitinates BRAT1 and this ubiquitination is enhanced in the presence of NDFIP1 (By similarity). {ECO:0000250|UniProtKB:P46934, ECO:0000269|PubMed:19047365, ECO:0000269|PubMed:19193720}.

Molecular Weight: 103.7 kDa Including tag.

UniProt: [P46935](#)

Pathways: [Notch Signaling](#), [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Skeletal Muscle Fiber Development](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#)

## Application Details

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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.

## Application Details

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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.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: Unlimited (if stored properly)

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## Images

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process