

Datasheet for ABIN3136435

NEDD4-2 Protein (AA 1-1004) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	NEDD4-2 (NEDD4L)
Protein Characteristics:	AA 1-1004
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NEDD4-2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MSLCEAPVHV GDKELKYFQI PQMLSQLSLL ASHHSRGLEF SGGQGESRIL RVKVVSGIDL</p> <p>AKKDIFGASD PYVKLSLYVA DENRELALVQ TKTIKKTLNP KWNEEFYFRV NPSNHRLLFE</p> <p>VFDENRLTRD DFLGQVDVPL SHLPTEDPTM ERPYTFKDFL LRPRSHKSRV KGFLRLKMAY</p> <p>MPKNGGQDEE NSEQRDDMEH GWEVVDSNDS ASQHQEELPP PPLPPGWEEK VDNLGRYYV</p> <p>NHNNRSTQWH RPSLMDVSSE SDNNIRQINQ EAAHRRFRSR RHISEDLEPE ASEGGGEGPE</p> <p>PWETISEEMN MAGDSLAL PPPASPVS R TSPQELSEEV SRRLQITPDS NGEQFSSLIQ</p> <p>REPSSRLRSC SVTDTVAEQA HLPPPSTPTR RARSSTVTGG EEPTPSVAYV HTTPGLPSGW</p> <p>EERKDAKGRT YYVNHNNRTT TWTRPIMQLA EDGASGSATN SNNHLVEPQI RRPRSLSSPT</p> <p>VTLSAPLEGA KDSPIRRAVK DTLSNPQSPQ PSPYNSPKPQ HKVTQSFLPP GWEMRIAPNG</p> <p>RPFFIDHNTK TTTWEDPRK FPVHMRKAS LNPNDLGPLP PGWEERIHL D GRTFYIDHNS</p> <p>KITQWEDPRL QNPAITGPAV PYSREFKQKY DYFRKKLKKP ADIPNRFEMK LHRNNIFEES</p>

YRRIMSVKRP DVLKARLWIE FESEKGLDYG GVAREWFFLL SKEMFNPYYG LFEYSATDNY
TLQINPNSGL CNEDHLSYFT FIGRVAGLAV FHGKLLDGFF IRPFYKMMLG KQITLNDMES
VDSEYNSLK WILENDPTL DLMFCIDEEN FGQTYQVDLK PNGSEIMVTN ENKREYIDL
IQWRFVNRVQ KQMNAFLEGF TELLPIDLIK IFDENELELL MCGLGDVDVN DWRQHSIYKN
GYCPNHPVIQ WFWKAVLLMD AEKRIRLLQF VTGTSRVPMN GFAELYGSNG PQLFTIEQWG
SPEKLPRHT CFNRDLPPY ETFEDLREKL LMAVENAQGF EGVD

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.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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.
- 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 against its specific reference buffer.

Product Details

- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	NEDD4-2 (NEDD4L)
Alternative Name:	Nedd4l (NEDD4L Products)
Background:	<p>E3 ubiquitin-protein ligase NEDD4-like (EC 2.3.2.26) (EC 2.3.2.36) (HECT-type E3 ubiquitin transferase NED4L) (NEDD4.2) (Nedd4-2),FUNCTION: E3 ubiquitin-protein ligase that mediates the polyubiquitination of lysine and cysteine residues on target proteins and is thereby implicated in the regulation of various signaling pathways including autophagy, innate immunity or DNA repair. Inhibits TGF-beta signaling by triggering SMAD2 and TGFBR1 ubiquitination and proteasome-dependent degradation. Downregulates autophagy and cell growth by ubiquitinating and reducing cellular ULK1 or ASCT2 levels. Promotes ubiquitination and internalization of various plasma membrane channels such as ENaC, SCN2A/Nav1.2, SCN3A/Nav1.3, SCN5A/Nav1.5, SCN9A/Nav1.7, SCN10A/Nav1.8, KCNA3/Kv1.3, KCNH2, EAAT1, KCNQ2/Kv7.2, KCNQ3/Kv7.3 or CLC5 (PubMed:15123669). Promotes ubiquitination and degradation of SGK1 and TNK2. Ubiquitinates BRAT1 and this ubiquitination is enhanced in the presence of NDFIP1. Plays a role in dendrite formation by melanocytes (By similarity). Involved in the regulation of TOR signaling (By similarity). Ubiquitinates and regulates protein levels of NTRK1 once this one is activated by NGF. Plays a role in antiviral innate immunity by catalyzing 'Lys-29'-linked cysteine ubiquitination of TRAF3, resulting in enhanced 'Lys-48' and 'Lys-63'-linked ubiquitination of TRAF3 (By similarity). {ECO:0000250 UniProtKB:Q96PU5, ECO:0000269 PubMed:11149908, ECO:0000269 PubMed:11244092, ECO:0000269 PubMed:11742982, ECO:0000269 PubMed:12424229, ECO:0000269 PubMed:15123669}.</p>
Molecular Weight:	115.4 kDa
UniProt:	Q8CFI0
Pathways:	Negative Regulation of Transporter Activity

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: 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.

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!

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months