

Datasheet for ABIN3090359

NEDD9 Protein (AA 1-834) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	NEDD9
Protein Characteristics:	AA 1-834
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NEDD9 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MKYKNLMARA LYDNVPECAE ELAFRKGDIL TVIEQNTGGL EGWWLCSLHG RQGIVPGNRV KLLIGPMQET ASSHEQPASG LMQQTFGQQK LYQVPNPQAA PRDTIYQVPP SYQNNQGIYQV PTGHGTQEQE VYQVPPSVQR SIGGTSGPHV GKKVITPVRT GHGYVVEYPS RYQKDVEDIP PSHTTQGVYD IPPSSAKGPV FSVPVGEIKP QGVYDIPPTK GVYAIPPSAC RDEAGLREKD YDFPPPMRQA GRPDLRPEGV YDIPPTCTKP AGKDLHVKNY CDIPGAAEPV ARRHQSLSPN HPPPQLGQSV GSQNDAYDVP RGVQFLEPPA ETSEKANPQE RDGVYDVPLH NPPDAKGSRD LVDGINRLSF SSTGSTRSNM STSSTSSKES SLSASPAQDK RLFLDPDTAI ERLQRLQQAL EMGVSSLMAL VTTDWRCYGY MERHINEIRT AVDKVELFLK EYLHFVKGAV ANAACLPOLI LHNKMKRELQ RVEDSHQILS QTSHDLNECS WSLNILAINK PQNKCDLDR FVMVAKTVPD DAKQLTTTIN TNAEALFRPG PGSLLHLKNGP ESIMNSTEYP HGGSQGQLLH PGDHKAQAHN KALPPGLSKE QAPDCSSSDG SERSWMDDYD YVHLQGKEEF ERQKELLEK ENIMKQNKMQ LEHHQLSQFQ LLEQEITKPV ENDISKWKPS QSLPTTNSGV SAQDRQLLCF YYDQCETHFI
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SLLNDAIDALF SCVSSAQPPR IFVAHSKFVI LSAHKLFIG DTLTRQVTAQ DIRNKVMNSS
NQLCEQLKTI VMATKMAALH YPSTTALQEM VHQVTDLSRN AQLFKRSLLE MATF

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 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.
- 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.

Product Details

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:	NEDD9
Alternative Name:	NEDD9 (NEDD9 Products)
Background:	<p>Enhancer of filamentation 1 (hEF1) (CRK-associated substrate-related protein) (CAS-L) (CasL) (Cas scaffolding protein family member 2) (CASS2) (Neural precursor cell expressed developmentally down-regulated protein 9) (NEDD-9) (Renal carcinoma antigen NY-REN-12) (p105) [Cleaved into: Enhancer of filamentation 1 p55],FUNCTION: Scaffolding protein which plays a central coordinating role for tyrosine-kinase-based signaling related to cell adhesion (PubMed:24574519). As a focal adhesion protein, plays a role in embryonic fibroblast migration (By similarity). May play an important role in integrin beta-1 or B cell antigen receptor (BCR) mediated signaling in B- and T-cells. Integrin beta-1 stimulation leads to recruitment of various proteins including CRKL and SHPTP2 to the tyrosine phosphorylated form (PubMed:9020138). Promotes adhesion and migration of lymphocytes, as a result required for the correct migration of lymphocytes to the spleen and other secondary lymphoid organs (PubMed:17174122). Plays a role in the organization of T-cell F-actin cortical cytoskeleton and the centralization of T-cell receptor microclusters at the immunological synapse (By similarity). Negatively regulates cilia outgrowth in polarized cysts (By similarity). Modulates cilia disassembly via activation of AURKA-mediated phosphorylation of HDAC6 and subsequent deacetylation of alpha-tubulin (PubMed:17604723). Positively regulates RANKL-induced osteoclastogenesis (By similarity). Required for the maintenance of hippocampal dendritic spines in the dentate gyrus and CA1 regions, thereby involved in spatial learning and memory (By similarity).</p> <p>{ECO:0000250 UniProtKB:A0A8I3PDQ1, ECO:0000250 UniProtKB:O35177, ECO:0000269 PubMed:17174122, ECO:0000269 PubMed:17604723,</p>

Target Details

ECO:0000269|PubMed:24574519, ECO:0000269|PubMed:9020138}.

Molecular Weight: 92.9 kDa

UniProt: [Q14511](#)

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. 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)



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