Datasheet for ABIN3090359

NEDD9 Protein (AA 1-834) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	NEDD9
Protein Characteristics:	AA 1-834
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NEDD9 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MKYKNLMARA LYDNVPECAE ELAFRKGDIL TVIEQNTGGL EGWWLCSLHG RQGIVPGNRV KLLIGPMQET ASSHEQPASG LMQQTFGQQK LYQVPNPQAA PRDTIYQVPP SYQNQGIYQV PTGHGTQEQE VYQVPPSVQR SIGGTSGPHV GKKVITPVRT GHGYVYEYPS RYQKDVYDIP PSHTTQGVYD IPPSSAKGPV FSVPVGEIKP QGVYDIPPTK GVYAIPPSAC RDEAGLREKD YDFPPPMRQA GRPDLRPEGV YDIPPTCTKP AGKDLHVKYN CDIPGAAEPV ARRHQSLSPN HPPPQLGQSV GSQNDAYDVP RGVQFLEPPA ETSEKANPQE RDGVYDVPLH NPPDAKGSRD LVDGINRLSF SSTGSTRSNM STSSTSSKES SLSASPAQDK RLFLDPDTAI ERLQRLQQAL EMGVSSLMAL VTTDWRCYGY MERHINEIRT AVDKVELFLK EYLHFVKGAV ANAACLPELI LHNKMKRELQ RVEDSHQILS QTSHDLNECS WSLNILAINK PQNKCDDLDR FVMVAKTVPD DAKQLTTTIN TNAEALFRPG PGSLHLKNGP ESIMNSTEYP HGGSQGQLLH PGDHKAQAHN KALPPGLSKE QAPDCSSSDG SERSWMDDYD YVHLQGKEEF ERQQKELLEK ENIMKQNKMQ

	LEHHQLSQFQ LLEQEITKPV ENDISKWKPS QSLPTTNSGV SAQDRQLLCF YYDQCETHFI SLLNAIDALF SCVSSAQPPR IFVAHSKFVI LSAHKLVFIG 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 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. • 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

Product Details

	System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	NEDD9
Alternative Name:	NEDD9 (NEDD9 Products)
Background:	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). {ECO:0000250|UniProtKB:A0A8I3PDQ1, ECO:0000250|UniProtKB:O35177, ECO:0000269|PubMed:17174122, ECO:0000269|PubMed:17604723, 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

Application Details

	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