

Datasheet for ABIN7563281
NEDD4 Protein (AA 1-887) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	NEDD4
Protein Characteristics:	AA 1-887
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NEDD4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Nedd4 Protein expressed in mammalian cells.
Sequence:	MSSDMAADES EAPVlseDev WefclDKTED GGGSPGSDVT DTCEPPCGCW ELNPNSLEEE HVLFTADPYL ELHNDdTRVv RvKVIAGIGL AKKDILGASD PYVRVTLyDP MSGILTSVQT KTIKksLNPK WNEEILFRVL QRHRILFEV FdenRLTRDD FLGQVDVPLY PLPTENPRME RPYTFKDFVL HPRSHKSRVK GYLRLKMTYL PKNGSEDENA DQAEELPGW VVLDQPDAAT HLPHPEPSP LPPGWEERQD VLGRTYYVNH ESRRTQWKRP SPDDDLTDED NDDMQLQAQR AFTTRRQISE DVDGPDNRES PENWEIVRED ENTEYSGQAV QSPPSGHIDV QTHLAEEFNT RLAVCGNPAT SQPVTSSNHS SRGGS�QTCI FEEQPTLPVL LPTSSGLPPG WEEKQDDRGR SYYVDHNSKT TTWSKPTMQD DPRSKIPAHl RgKtDSNDLg 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

Product Details

YLVIQWRFVN RIQKQMAAFK EGGFELIPQD LIKIFDENEL ELLMCGLGDV DVNDWREHTK
YKNGYSMNHQ VIHWFVKAVW MMDSEKRIRL LQFVTGTSRV PMNGFAELYG SNGPQSFTVE
QWGTPDKLPR AHTCFNRLDL PPYESFDELW DKLQMAIENT QGFDGVD **Sequence without tag.**

The proposed Purification-Tag is based on experiences 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.

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: NEDD4

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

Background: E3 ubiquitin-protein ligase NEDD4 (EC 2.3.2.26) (HECT-type E3 ubiquitin transferase NEDD4) (Neural precursor cell expressed developmentally down-regulated protein 4) (NEDD-4),FUNCTION: 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).

Target Details

Monoubiquitinates IGF1R at multiple sites, thus leading to receptor internalization and degradation in lysosomes (PubMed:18286479). 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 (PubMed:20159449). Ubiquitinates TNK2 and regulates EGF-induced degradation of EGFR and TNF2 (By similarity). Ubiquitinates BRAT1 and this ubiquitination is enhanced in the presence of NDFIP1 (By similarity). Ubiquitinates DAZAP2, leading to its proteasomal degradation (By similarity). Ubiquitinates POLR2A (By similarity). Functions as a platform to recruit USP13 to form an NEDD4-USP13 deubiquitination complex that plays a critical role in cleaving the 'Lys-48'-linked ubiquitin chains of VPS34 and then stabilizing VPS34, thus promoting the formation of autophagosomes (By similarity). {ECO:0000250|UniProtKB:P46934, ECO:0000269|PubMed:18286479, ECO:0000269|PubMed:19047365, ECO:0000269|PubMed:19193720}.

Molecular Weight: 102.7 kDa

UniProt: [P46935](#)

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

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Handling

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months