

NEDD4L Protein, Human, Recombinant (GST)

General Information

Synonyms:	HECT-type E3 ubiquitin transferase NED4L;Nedd4-2;NEDD4L;NEDL3;KIAA0439;E3 ubiquitin-protein ligase NEDD4-like;NEDD4.2
Protein Construction:	2-975 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q96PU5
Molecular Weight:	138.5 kDa (predicted)
AA Sequence:	<p>ATGLGEPVYGLSEDEGESRILRVKVVSGIDLAKKDIFGASDPYVKLSLYVADENRELALVQTKTIKTLNPKWNE EFYFRVNPSNHRLLEFVFDENRLTRDDFLGQVDVPLSHLPTEDPTMERPYTFKDFLLRPRSHKSRVKGFLRLK MAYMPKNGGGQDEENSQDRDDMEHGWEVVDSDNSASQHQEELPPPPLPPGWEEKVDNLGRYYYYVNHNNR TTQWHRPSLMDVSSSESDNNIRQINQEAARRFRSRRHISEDLEPEPSEGGDVPEPWETISEEVNIAGDSLGLA LPPPPASPGSRTSPQELSEELSRRLQITPDSNGEQFSSLIQREPSSRLRSCSVTDAVAEQHGLPPPSAPAGRAR SSTVTGGEEPTPSVAYVHTTPGLPSGWEERKDAKGRYYYYVNHNNRRTTWTWRPIMQLAEDGASGSATNSNNH LIEPQIRRPRLSSPTVTLAPLEGAKDSPVRRAVKDTLSNPQSPQSPYNSPKPQHKVTQSFLPPGWEMRIAP NGRPFFIDHNTKTTTWEDPRLKFPVHMRSKTSLNPNDLGPLPPGWEERIHLDGRTFYIDHNSKITQWEDPRLQ NPAITGPAVPYSREFKQKYDYFRKCLKKPADIPNRFEMKLHRNNIFEESYRRIMSVKRPDVLKARLWIEFESEK GLDYGGVAREWFFLLSKEMFNPPYYGLFEYSATDNYTLQINPNSGLCNEDHLSYFTFIGRVAGLAVFHGKLLDG FFIRPFYKMMLGKQITLNDMESVDSEYYNSLKWILENDPTELDLMFCIDEENFGQTYQVDLKPNGSEIMVTNE NKREYIDLVIQWRVNRVQKQMNAFLEGFTELLPIDLIKIFDENELELLMCGLGDVDVNDWRQHSIYKNGYCP NHPVIQWFWKAVLLMDAEKRIRLLQFVTGTSRVPMMNGFAELYGSNPQLFTIEQWGSPEKLPRAHTCFNRLD LPPYETFEDLREKLLMAVENAQGFEGVD</p>

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:	Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.
Stability & Storage:	Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months

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at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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. Inhibits TGF-beta signaling by triggering SMAD2 and TGFBR1 ubiquitination and proteasome-dependent degradation. 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. 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. Involved in the regulation of TOR signaling. Ubiquitinates and regulates protein levels of NTRK1 once this one is activated by NGF.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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