

## Active Recombinant Human NEDD4 protein, His-tagged

Cat. No. NEDD4-01H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human NEDD4 protein, fused to His-tag, was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	This gene is the founding member of the NEDD4 family of HECT ubiquitin ligases that function in the ubiquitin proteasome system of protein degradation. The encoded protein contains an N-terminal calcium and phospholipid binding C2 domain followed by multiple tryptophan-rich WW domains and, a C-terminal HECT ubiquitin ligase catalytic domain. It plays critical role in the regulation of a number of membrane receptors, endocytic machinery components and the tumor suppressor PTEN.
<b>Form</b>	X mg/ml (X µM) in 50 mM HEPES pH 8.0, 100 mM NaCl, 5 mM DTT, 1 mM EDTA.
<b>Bio-activity</b>	Recombinant Human NEDD 4 is a Ubiquitin Ligase (E3) that functions downstream of a Ubiquitin-activating (E1) enzyme and a Ubiquitin-conjugating (E2) enzyme to conjugate Ubiquitin to substrate proteins. Reaction conditions will need to be optimized for each specific application.
<b>Molecular Mass</b>	88 kDa
<b>Purity</b>	>95%
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

12 months from date of receipt, -70 centigrade as supplied.  
 3 months, -70 centigrade under sterile conditions after opening.

**Shipping**

The product is shipped with dry ice or equivalent. Upon receipt, store it immediately at the temperature recommended below.

**GENE INFORMATION**

**Gene Name** [NEDD4 NEDD4 E3 ubiquitin protein ligase \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [NEDD4](#)

**Synonyms**

Cell proliferation-inducing gene 53 protein; E3 ubiquitin-protein ligase NEDD4; EC 6.3.2.; EC 6.3.2.-; KIAA0093NEDD4-1MGC176705; NEDD4; NEDD-4; Neural precursor cell expressed developmentally down-regulated protein 4; neural precursor cell expressed, developmentally down-regulated 4; receptor-potentiating factor 1; RPF1

**Gene ID** [4734](#)

**mRNA Refseq** [NM\\_006154](#)

**Protein Refseq** [NP\\_006145](#)

**MIM** [602278](#)

**UniProt ID** [P46934](#)

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