



Recombinant Protein Technical Manual  
Recombinant Human NEDD8 Protein (His Tag, SUMO  
Tag)  
RPES0161

### Product Data:

**Product SKU:** RPES0161

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** Q15843

### Protein Information:

**Molecular Mass:** 20.9 kDa

**AP Molecular Mass:** 24 kDa

**Tag:** N-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 5% Trehalose, pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Neural precursor cell expressed developmentally down-regulated protein 8; NEDD8; Neddylin; Ubiquitin-like protein Nedd8;

## Immunogen Information:

**Sequence:** Met 1-Gly76

## Background:

Human NEDD8 shares 60% amino acid sequence identity to ubiquitin. The only known substrates of NEDD8 modification are the cullin subunits of SCF ubiquitin E3 ligases. The NEDDylation of cullins is critical for the recruitment of E2 to the ligase complex, thus facilitating ubiquitin conjugation. NEDD8 modification has therefore been implicated in cell cycle progression and cytoskeletal regulation.