

Recombinant Human NEDD8 Protein, His-tagged

Cat. No. NEDD8-2018H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NEDD8 Protein is produced by E. coli expression system. The target protein is expressed with sequence (Met1-Gly76) of human NEDD8 (Accession #NP_006147.1) fused with a 6×His tag at the C-terminus.
Species	Human
Source	E.coli
ProteinLength	Met1-Gly76
Description	NEDD8 is a protein that in humans is encoded by the NEDD8 gene. (In <i>Saccharomyces cerevisiae</i> this protein is known as Rub1.) This ubiquitin-like protein (ULP), becomes covalently conjugated to a limited number of cellular proteins in a manner analogous to ubiquitination. Human NEDD8 shares 60% amino acid sequence identity to ubiquitin. The primary known substrates of NEDD8 modification are the Cullin subunits of Cullin-based E3 ubiquitin ligases, which are active only when neddylated. Their NEDDylation 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.
Form	Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5 % mannitol.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Purity	> 90% as determined by SDS-PAGE

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Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	NEDD8 neural precursor cell expressed, developmentally down-regulated 8 [Homo sapiens]
Official Symbol	NEDD8
Synonyms	NEDD8; neural precursor cell expressed, developmentally down-regulated 8; Nedd 8; neddylin; ubiquitin-like protein Nedd8; NEDD-8; FLJ43224; MGC104393; MGC125896; MGC125897;
Gene ID	4738
mRNA Refseq	NM_006156
Protein Refseq	NP_006147
MIM	603171
UniProt ID	Q15843

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