

## Active Recombinant Human NEDD8

Cat. No. NEDD8-160H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human NEDD8 (amino acid residues 1-76) was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-76 a.a.
<b>Description</b>	Neural Precursor Cell Expressed, Developmentally Downregulated 8 (NEDD8) is a member of the ubiquitin like modifiers and the human gene was first described by (Kamitani, et al., 1997). The heterodimeric E1, APP-BP1/UBA3 forms a complex in vitro and a thioester linkage with NEDD8 (Osaka et al., 1998). NEDD8 has also been co-crystallised with APP-BP1 and ATP (Walden et al., 2003).
<b>Form</b>	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
<b>Bio-activity</b>	E2 thioester NEDD8 loading assay. The activity of NEDD8 was validated by loading E1 APP-BP1/Uba3 activated NEDD8 onto the active cysteine of the His-UBE2M E2 enzyme via a transthioylation reaction. Incubation of the APP-BP1/Uba3 and His-UBE2M enzymes in the presence of NEDD8 and ATP at 30°C was compared at two time points, T0 and T10 minutes. Sensitivity of the NEDD8/His-UBE2M thioester bond to the reducing agent DTT was confirmed.
<b>Molecular Mass</b>	~8.6kDa

 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

<b>Purity</b>	>98% by SDS-PAGE
<b>Storage</b>	12 months at -70°C. Avoid multiple freeze/thaw cycles.
<b>Concentration</b>	1 mg/ml
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	NEDD8 neural precursor cell expressed, developmentally down-regulated 8 [ Homo sapiens ]
<b>Official Symbol</b>	NEDD8
<b>Synonyms</b>	NEDD8; neural precursor cell expressed, developmentally down-regulated 8; Nedd 8; neddylin; ubiquitin-like protein Nedd8; NEDD-8; FLJ43224; MGC104393; MGC125896; MGC125897;
<b>Gene ID</b>	4738
<b>mRNA Refseq</b>	NM_006156
<b>Protein Refseq</b>	NP_006147
<b>MIM</b>	603171
<b>UniProt ID</b>	Q15843
<b>Chromosome Location</b>	14q11.2
<b>Pathway</b>	p53 pathway, organism-specific biosystem;

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**Function**

ubiquitin protein ligase binding;

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