Active Recombinant Human NEDD8

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

SPECIFICATION

Product Overview	Recombinant human NEDD8 (amino acid residues 1-76) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-76 a.a.
Description	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).
Form	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
Bio-activity	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 transthiolation 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.
Molecular Mass	~8.6kDa

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Purity	>98% by SDS-PAGE
Storage	12 months at -70°C. Avoid multiple freeze/thaw cycles.
Concentration	1 mg/ml

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
Chromosome Location	14q11.2
Pathway	p53 pathway, organism-specific biosystem;

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Function	ubiquitin protein ligase binding;

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