
Product Data Sheet

Product Name: NEDD8 Human
 Cat. No.: GP21995
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Nedd-8; FLJ43224; MGC104393; MGC125896; MGC125897; NEDD8; Ubiquitin-like protein Nedd8; Neddylin; Neural precursor cell expressed developmentally down-regulated protein 8.		
Amino Acid Sequence	<p>MHHHHHMKI EEGKLVWIN GDKGYNGLAE VGKKFEKDTG IKVTVEHPDK LEEKFPQVAA TGDGPDIIFW AHDRFGGYAQ SGLLAEITPD KAFQDKLYPF TWDAVRYNGK LIAYPIAVEA LSLIYNKDLL PNPPKTWEEI PALDKELKAK GKSALMFNLQ EPYFTWPLIA ADGGYAFKYE NGKYDIKVDG VDNAGAKAGL TFLVDLIK NK HMNADTDYSI AEA AFNKGET AMTINGPWAW SNIDTSKVN Y GVTVLPTFKG QPSKPFVGV L SAGINAASPN KELAKEFLEN YLLTDEGLEA VNKDKPLGAV ALKSYEEELA KDPRIATME NAQKGEIMPN IPQMSAFWYA VRTAVINAAS GRQTVDEALK DAQTNSSSNN NNNNNNNNLG IEGRGSHMAA AEAANCIMEV SCGQAESSEK PNAEDMTSKD YFDSYAHFG IHEEMLKDEV RTLTYRNSMF HNRHLFKDKV VLDVGS GTGILCMFAAKAGA RKVIGIECSS ISDYAVKIVK ANKLDHVVTI IKGKVEEVEL PVEKVDIIS EWMGYCLFYE SMLNTVLHAR DKWLAPDGLI FPDRATLYVT AIEDRQYKDY KIHWWENVYG FDMSCIKDVA IKEPLVDVVD PKQLVTNACL IKEVDIYTVK VEDLTFTSPF CLQVKRNDYVHALVAYFNIE FTRCHKRTGF STSPESPYTH WKQTVFYMED YLTVKTGEEI FGTIGMRPNA KNNRDLFTI DLDFKQLCE LSCSTDYRMR.</p>		
Formulation	The NEDD8 solution contains 20mM Tris pH 8.0, 50mM NaCl, 0.5mM DTT & 10% glycerol.		

Introduction

NEDD8 is part of the ubiquitin family. Human NEDD8 shares 60% amino acid sequence homology to ubiquitin. The NEDD8 system is essential for the regulation of protein degradation pathways involved in cell cycle progression, morphogenesis and

Caution: Product has not been fully validated for medical applications. For research use only.

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tumorigenesis. NEDD8 is involved in cell cycle control and embryogenesis. Covalent attachment to its substrates requires prior activation by the E-1 complex UbE1c- appbp1 and linkage to the E-2 enzyme UbE2m. Attachment of NEDD8 to cullins activates their associated E-3 ubiquitin ligase activity, and thus promotes polyubiquitination and proteasomal degradation of cyclins and other regulatory proteins.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

NEDD8 Human Recombinant fused with 37 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 113 amino acids (1-76 a.a.) and having a molecular mass of 12.8 kDa. The NEDD8 is purified by proprietary chromatographic techniques.

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