Recombinant human NEDD8 protein

Catalog Number: NED0905

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-76aa

UniProt No.
Q15843

NCBI Accession No.
NP_006147

Alternative Names
Neural precursor cell expressed developmentally down-regulated 8, ubiquitin-like protein Nedd8, Neddylin, Neural precursor cell expressed, developmentally down-regulated 8 MGC104393, MGC125896, MGC125897, NED8, 0NEDD 8, Neddylin, Neural precursor cell expressed developmentally down regulated 8, Neural precursor cell expressed developmentally down regulated gene 8, Rub1, ubiquitin like protein Nedd 8, ubiquitin like protein Nedd8.

PRODUCT SPECIFICATION

Molecular Weight
12.8 kDa (113aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.5mM DTT, 50mM NaCl, 10% glycerol

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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Description

NEDD8 belongs to the ubiquitin family and human NEDD8 shares 60% amino acid sequence identity to ubiquitin. The NEDD8 system is essential for the regulation of protein degradation pathways involved in cell cycle progression, morphogenesis and tumorigenesis. Attachment of NEDD8 to cullins activates their associated E3 ubiquitin ligase activity, and thus promotes polyubiquitination and proteasomal degradation of cyclins and other regulatory proteins. Recombinant human NEDD8 protein was expressed in E. coli and purified by using conventional chromatography techniques, after refolding of the isolated inclusion body in renaturation buffer.

Amino acid Sequence

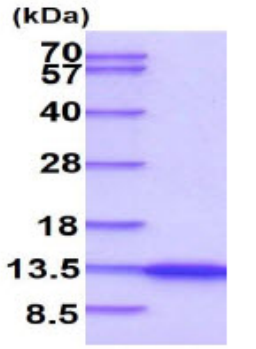
MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMLI KVKTLTGKEI EIDIEPTDKV ERIKERVEEK EGIPPQQQRL IYSGKQMNDE KTAADYKILG GSVLHLVLAL RGG

General References

Wu K., et al. (2002) J Biol Chem. 277(1): 516-27
Hori T., et al. (1999) Oncogene. 18(48): 6829-34

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.