

Recombinant Human NEDD8 Activating Enzyme E1 Subunit 1, His-tagged

Cat. No. NAE1-1570H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NAE1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	NAE1 (NEDD8-activating enzyme E1 regulatory subunit) belongs to the ubiquitin-activating E1 family. This protein binds to the beta-amyloid precursor protein. Beta-amyloid precursor protein is a cell surface protein with signal-transducing properties, and it is thought to play a role in the pathogenesis of Alzheimer's disease. NAE1 participates in a novel ubiquitinylation-related pathway involving the ubiquitin-like molecule NEDD8. Also, this protein is required for cell cycle progression through the S/M checkpoint.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 200mM NaCl.
Molecular Weight	62.7 kDa (557aa)
Purity	>90% by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)

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Sequences of amino acids

MGSSHHHHHH SSGLVPRGSH MGSMAQLGKL LKEQKYDRQL RLWGDHGGQEA
 LESAHVCLIN ATATGTEILK NLVLPGIGSF TIIDGNQVSG EDAGNNFFLQ
 RSSIGKNRAE AAMEFLQELN SDVSGSFVEE SPENLLDNDP SFFCRFTVVV
 ATQLPESTSL RLADVLWNSQ IPLLICRTYG LVGYMRIIK EHPVIESHPD
 NALEDLRLDK PFPELREHFQ SYDLDHMEKK DHSHTPWIVI IAKYLAQWYS
 ETNGRIPKTY KEKEDFRDLI RQGILKNENG APEDEENFEE AIKNVNTALN
 TTQIPSSIED IFNDDRCINI TKQTPSFWIL ARALKEFVAK EGQGNLPVRG
 TIPDMIADSG KYIKLQNVYR EKAKKDAAAV GNHVAKLLQS IGQAPESISE
 KELKLLCSNS AFLRVVRCRS LAEEYGLDTI NKDEIISMD NPDNEIVLYL
 MLRAVDRFHK QQGRYPGVSQ YQVEEDIGKL KSCLTGFLQE YGLSVMVKDD
 YVHEFCRYGA AEPHTIAAFL GGAAAEVVIK IITKQFVIFN NTYIYSGMSQ TSATFQL

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Alzheimer"s disease

GENE INFORMATION
Gene Name

NAE1 NEDD8 activating enzyme E1 subunit 1 [Homo sapiens]

Official Symbol

NAE1

Synonyms

NAE1; NEDD8 activating enzyme E1 subunit 1; HPP1; ula-1; APPBP1; A-116A10.1; NEDD8-activating enzyme E1 regulatory subunit; APP-BP1; OTTHUMP00000174807; OTTHUMP00000174808; protooncogene protein 1; proto-oncogene protein 1; amyloid protein-binding protein 1; NEDD8-activating enzyme E1 subunit; amyloid beta precursor protein-binding protein 1, 59kD; amyloid beta precursor protein binding protein 1, 59kDa; amyloid beta precursor protein-binding protein 1, 59 kDa; APP-BP1; amyloid beta precursor protein binding protein 1;

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Amyloid beta precursor protein-binding protein 1, 59 kDa; NEDD8-activating enzyme E1 subunit; Amyloid protein-binding protein 1	
Gene ID	8883
mRNA Refseq	NM_001018159
Protein Refseq	NP_001018169
MIM	603385
UniProt ID	Q13564
Chromosome Location	16q22
Function	Contributes to NEDD8 activating enzyme activity; catalytic activity; protein binding; protein heterodimerization activity
PDBrendering based on 1r4m.	

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