

Recombinant Human NAE1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. NAE1-4720H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NAE1 MS Standard C13 and N15-labeled recombinant protein (NP_001018170) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene 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. In addition, the encoded protein can form a heterodimer with UBE1C and bind and activate NEDD8, a ubiquitin-like protein. This protein is required for cell cycle progression through the S/M checkpoint. Three transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	60.2 kDa
AA Sequence	MAQLGKLLKEQKYDRQLRLWGDHGGQEALESAAHVCLINATATGTEILKNLVLPGIGSF TIIDGNQVSGEDAGNNFFLQRSSIGKNRAEAAMEFLQELNSDVSGSFVEESPENLLD NDPSFFCRFTVVVATQLPESTSLRLADVLWNSQIPLLICRTYGLVGYMRIIIEHPVIES HPDNALEDLRLDKPFPELREHFQSYDLDHMEKKDHSHTPWIVIIAKYLAQWYSETNG RIPKTYKEKEDFRDLIRQGILKNENGAPEDENFEEAIKNVNTALNTTQIPSSIEDIFND DRCINITKQTPSWILARALKEFVAKEGQGNLPVRGTIPDMIADSGKYIKLQNVYREK

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AKKDAAAVGNHVAKLLQSIGQAPESISEKELKLLCSNSAFLRVVRCRSLAEEYGLDTI
NKDEIISMDNPDNEIVLYLMLRAVDRFHKQQGRYPGVSNYQVEEDIGKLKSLTGF
LQEYGLSVMVKDDYVHEFCRYGAAEPHTIAAFLGGAAAQEVIKITKQFVIFNNTYIYS
GMSQTSATFQLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name NAE1 NEDD8 activating enzyme E1 subunit 1 [Homo sapiens (human)]

Official Symbol NAE1

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

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Gene ID	8883
mRNA Refseq	NM_001018160
Protein Refseq	NP_001018170
MIM	603385
UniProt ID	Q13564
SDS-PAGE	