

Recombinant Mouse Nae1 Protein, Myc/DDK-tagged

Cat. No. Nae1-4281M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length NEDD8 activating enzyme E1 subunit 1 (Nae1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Regulatory subunit of the dimeric UBA3-NAE1 E1 enzyme. E1 activates NEDD8 by first adenylating its C-terminal glycine residue with ATP, thereafter linking this residue to the side chain of the catalytic cysteine, yielding a NEDD8-UBA3 thioester and free AMP. E1 finally transfers NEDD8 to the catalytic cysteine of UBE2M. Necessary for cell cycle progression through the S-M checkpoint. Overexpression of NAE1 causes apoptosis through deregulation of NEDD8 conjugation.
Molecular Mass	60.3 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method

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Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name [Nae1 NEDD8 activating enzyme E1 subunit 1 \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Nae1](#)

Synonyms

NAE1; NEDD8 activating enzyme E1 subunit 1; NEDD8-activating enzyme E1 regulatory subunit; APP-BP1; amyloid protein-binding protein 1; amyloid beta precursor protein binding protein 1, 59kDa; amyloid beta precursor protein-binding protein 1, 59 kDa; 59kDa; Appbp1; MGC29435; MGC36437; MGC36630

Gene ID [234664](#)

mRNA Refseq [NM_144931](#)

Protein Refseq [NP_659180](#)

UniProt ID [Q8VBW6](#)

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