

## Product datasheet for TP508551

### Nae1 (NM\_144931) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse NEDD8 activating enzyme E1 subunit 1 (Nae1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR208551 protein sequence Red=Cloning site Green=Tags(s)

MAQPGKILKEQKYDRQLRLWGDHGGQEALESAAHVCLINATATGTEILKNLVLPGIGSFTIIDGNLVSGEDA  
GNNFFLQKSSIGKNRAQAAMEFLQELNSDVSGSFVEESPENLLDNDPSFFCRFTIVATQLLESTLLRLA  
DVLWNSQIPLLICRTYGLVGYMRIIIKEHPVIESHPDNALEDLRLDKPFPELREHLQSYDLDHMEKKDHS  
HTPWIVIIAKYLAQWYNETNGRIPKSYKEKEDFRDLIRQGILKNENGAPEDENFEEAIKNVNTALNTTQ  
IPSSIEDIFNDDRCINITKQTPTFWILARALKEFVAKEGQGNLPVRGTIPDMIADSNKYIKLQNVYREKA  
KKDAAAVGNHVAKLLQSVGQAPESISEKELKLLCSNSAFLRVVRCRSLAEEYGLDVTNKDEIISMDNPD  
NEIVLYLMLRAVDRFHKQHGRYPGVSNYQVEEDIGKLSCLTGFLQEYGLSVMVKDDYVHEFCRYGAAEP  
HTIAAFLGGAAAQEVIKIITKQFVIFNNTYIYSGMSQTSATFQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	60.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_659180</a></u>



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Locus ID: 234664

UniProt ID: [Q8VBW6](#), [Q3UK27](#)

RefSeq Size: 1808

Cytogenetics: 8 D3

RefSeq ORF: 1605

Synonyms: 59kDa; Appbp1

**Summary:** 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 (By similarity).[UniProtKB/Swiss-Prot Function]