

Recombinant Active Human NAE1/UBA3 Complex Protein, His/GST-tagged

Cat. No. NAE1-33H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NAE1 (2-end) and full-length human UBA3 were expressed by baculovirus in Sf9 insect cells. NAE1 used an N-terminal His tag, the gene accession number is NM_003905. UBA3 used an N-terminal GST tag and the gene accession number is BC022853.
Species	Human
Source	Insect Cells
ProteinLength	2-end a.a.
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	NAE1: Approx 65 kDa UBA3: Approx 73 kDa
Purity	> 70%

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Stability	One year at -70 centigrade from data of shipment.
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µL
Storage Buffer	Recombinant protein complex is a combination of the folloeing 2 buffer systems, adjusted to optimize the NAE1 (phosphate buffer system) and UBA3 (Tris buffer system) proportions: 50 mM sodium phosphate, pH 7.5, 300 mM NaCl, 150 mM imidazole, 0.25 mM DTT, 25% glycerol. 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 25% glycerol.
Shipping	Dry ice

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

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Gene ID 8883

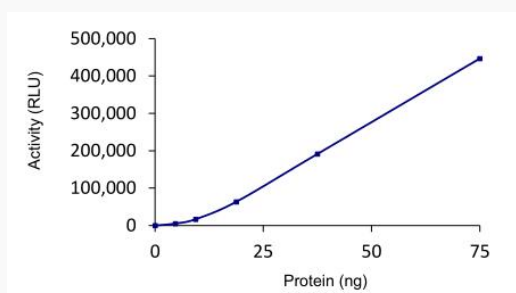
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Protein Refseq NP_003896

MIM 603385

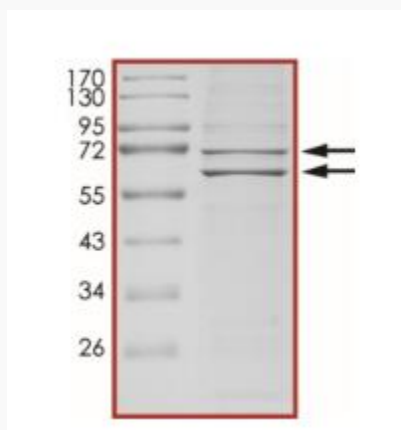
UniProt ID Q13564

Specific Activity



The specific activity of NAE1/UBA3 was determined to be 6.4 nmol/min/mg as per activity assay protocol.

Purity



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The purity of NAE1/UBA3 was determined to be >70% by densitometry.

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