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NAE1 Human

Catalog #:ENPS-234

For research use only.

Description:NAE1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 557 amino acids (1-534) and having a molecular mass of 62.7kDa.NAE1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Synonyms:NEDD8-activating enzyme E1 regulatory subunit, Amyloid beta precursor protein-binding protein 1 59 kDa, APP-BP1, Amyloid protein-binding protein 1, Proto-oncogene protein 1, NAE1, APPBP1, HPP1, ula-1, A-116A10.1.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MGSMAQLGKL LKEQKYDRQL RLWGDHGQEA LESAHVCLIN ATATGTEILK NLVLPGIGSF TIIDGNQVSG EDAGNNFFLQ RSSIGKNRAE AAMEFLQELN SDVSGSFVEE SPENLLDNDP SFFCRFTVVV ATQLPESTSL RLADVLWNSQ IPLLICRTYG LVGYMRIIIK EHPVIESHPD NALEDLRLDK PFPELREHFQ SYDLDHMEKK DH

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:
The NAE1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 10% glycerol and 200mM NaCl.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Usage:
NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
NEDD8-activating enzyme E1 regulatory subunit (NAE1) is a member of the ubiquitin-activating E1 family. NAE1 binds to the beta-amyloid precursor protein. Beta-amyloid precursor protein is a cell surface protein with signal-transducing properties, and it is believed to have a role in the pathogenesis of Alzheimer's disease. NAE1 participates in a unique ubiquitinylation-related pathway involving the ubiquitin-like molecule NEDD8. Furthermore, the NAE1 protein is essential for cell cycle progression throμgh the S/M checkpoint.

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