

Recombinant human APPBP1/NAE1 protein

Catalog Number: ATGP1355

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-534aa

UniProt No.

Q13564

NCBI Accession No.

NP_003896

Alternative Names

NEDD8 activating enzyme E1 subunit 1, A-116A10.1, APPBP1, HPP1, ula-1

PRODUCT SPECIFICATION

Molecular Weight

62.7 kDa (557aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 200mM NaCl

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

NAE1 (NEDD8-activating enzyme E1 regulatory subunit) belongs to the ubiquitin-activating E1 family. This protein 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. NAE1 participates in a novel ubiquitinylation-related pathway involving the ubiquitin-like molecule NEDD8. Also, this protein is required for cell cycle progression through the S/M checkpoint. Recombinant human NAE1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography

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techniques.

Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSMAQLGKL LKEQKYDRQL RLWGDHGQEA LESAHVCLIN ATATGTEILK NLVLPGIGSF
TIIDGNQVSG EDAGNNFFLQ RSSIGKNRAE AAMEFLQELN SDVSGSFVEE SPENLLDNDP SFFCRFTVVV ATQLPESTSL
RLADVLWNSQ IPLLICRTYG LVGYMRIIK EHPVIESHPD NALEDLRLDK PPELREHFQ SYDLDHMEKK DHSHTPWIVI
IAKYLAQWYS ETNGRIPKTY KEKEDFRDLI RQGILKNENG APEDEENFEE AIKNVNTALN TTQIPSSIED IFNDDRCINI
TKQTPSFWIL ARALKEFVAK EGQGNLPVRG TIPDMIADSG KYIKLQNVYR EKAKKDAAAV GNHVAKLLQS IGQAPESISE
KELKLLCSNS AFLRVVRCRS LAEEYGLDTI NKDEIISMD NPDNEIVLYL MLRAVDRFHK QQGRYPGVSN YQVEEDIGKL
KSCLTGFLQE YGLSVMVKDD YVHEFCRYGA AEPHTIAAFL GGAAAQEVK IITKQFVIFN NTYIYSGMSQ TSATFQL

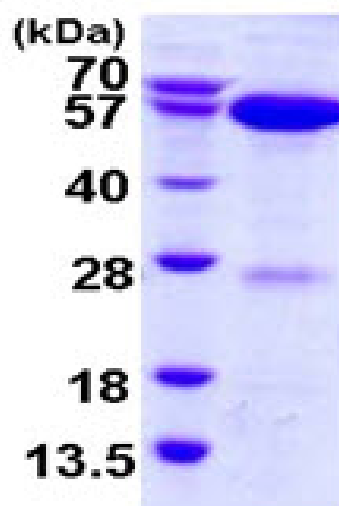
General References

Chen Y, et al. (2000) J Biol Chem. 275(12):8929-35.

Bohnsack R.N., et al. (2003) J. Biol. Chem. 278:26823-26830

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)