

Recombinant human alpha-Synuclein (lyophilized) protein

Catalog Number: IBSNA2001L



PRODUCT INFORMATION

Expression system

E.coli

Domain

1-140aa

UniProt No.

P37840

NCBI Accession No.

NP_000336

Alternative Names

SNCA, NACP, PARK1, alpha-Synuclein, Non-A beta component of AD amyloid, Non-A4 component of amyloid precursor, Alpha synuclein, Alpha-synuclein isoform NACP140, alphaSYN, MGC105443, MGC110988, MGC127560, MGC64356, Non A beta component of AD amyloid, Non A4 component of amyloid precursor, Non-A-beta component of alzheimers disease amyloid, precursor of PARK 1, PARK 4, PARK4, Parkinson disease familial 1, PD 1, PD1, Synuclein alpha,

PRODUCT SPECIFICATION

Molecular Weight

14.4 kDa (140aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

Reconstitute in sterile distilled water at a concentration of 1mg/ml or less.

Formulation

Lyophilized from a 0.2 um filtered in 20mM Tris-HCl buffer (pH 7.5) containing 100mM NaCl, 1mM MgCl₂

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

Non-Tagged

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

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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Description

alpha-Synuclein (amino acids 1-140), an acidic neuronal protein of 140 amino acids, is extremely heat-resistant and is natively unfolded with an extended structure primarily composed of random coils. alpha-synuclein has been suggested to be implicated in the pathogenesis of Parkinson's disease and related neurodegenerative disorders, and more recently, to be an important regulatory component of vesicular transport in neuronal cells. Moreover, recent studies have shown that alpha-synuclein has chaperone activity and that this activity is lost upon removing its C-terminal acidic tail (amino acids 96-140).

Amino acid Sequence

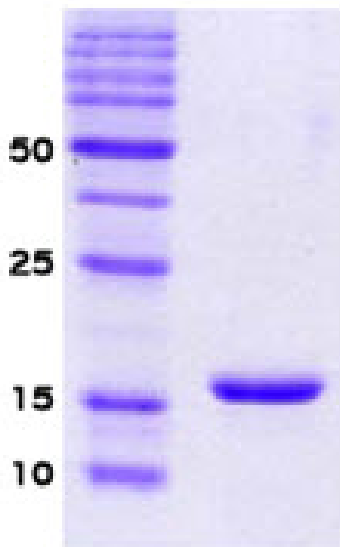
MDVFMKGLSK AKEGVVAAAE KTKQGVAEAA GKTKEGVLYV GSKTKEGVVH GVATVAEKTQ EQVTNVGGAV
VTGVTAVAQK TVEGAGSIAA ATGFVKKQDL GKNEEGAPQE GILEDMPVDP DNEAYEMPSE EGYQDYEPEA

General References

- Jakes, R., et al. (1994) FEBS lett. 345, 27-32
- ueda, K., et al. (1993) Proc. Natl. Acad. Sci. uSA 90, 11282-11286
- Kim, J. (1997) Molecules and Cells 7, 78-83
- Paik, S. R., et al. (1997) Arch. Biochem. Biophys. 344, 325-334.

DATA

SDS-PAGE



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

14% SDS-PAGE (3ug)

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