PRODUCT INFORMATION

Expression system E.coli

Domain 1-140aa

UniProt No. P37840

NCBI Accession No. NP_000336.1

Alternative Names

SNCA, NACP, PARK1, PARK4, PD1, α -synuclein Non-A beta component of AD amyloid, Non-A4 component of amyloid precursor, Parkinson disease 4, autosomal dominant Lewy body

PRODUCT SPECIFICATION

Molecular Weight

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

Concentration 1mg/ml (determined by BCA assay)

Formulation Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 0.1 M 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

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

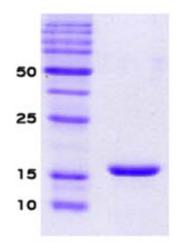
MDVFMKGLSK AKEGVVAAAE KTKQGVAEAA GKTKEGVLYV GSKTKEGVVH GVATVAEKTK EQVTNVGGAV VTGVTAVAQK TVEGAGSIAA ATGFVKKDQL GKNEEGAPQE GILEDMPVDP DNEAYEMPSE EGYQDYEPEA

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)