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DATA SHEET

- Product Name:** Alpha-Synuclein, 112 (NACP 112)
- Catalog #:** S-1016
- Source:** Recombinant. An alternatively spliced (103-129) form of α -synuclein.
- Molecular Mass:** 11,371
- Sequence :** MDVFMKGLSKAKEGVVAAAE KTKQGVAAEAGKTKEGVLYVGSKTKEGVVHG
VATVAEKTKEQVTNVGGAVVTGVTAVAQKTVEGAGSIAAATGFVKKDQLGKEGYQDYEPEA
- Protein Purity:** >95% by SDS-PAGE
- Counter Ion:** Lyophilized in final buffer of 20 mM Tris/HCl, pH 7.5, 100 mM NaCl
- Supplied As:** White lyophilized powder
- Resuspension:** Resuspend in water at conc. of 1 mg/ml. This will give you a final of 20 mM Tris-HCl, pH 7.5, 100 mM NaCl
- Storage:** -20°C
- Description:** An alternatively spliced (103-129) form of α -synuclein^{1,2,3}. Alpha-Synuclein (α -Synuclein) is a 14 kD (140 amino acids) acidic presynaptic protein. It is a major component of Parkinson's disease aggregates and is implicated in the pathogenesis of Parkinson's Disease and related neurodegenerative disorders. α -Synuclein accumulates in the brains of sporadic Parkinson's disease patients as a major component of Lewy bodies, which are intraneuronal cytoplasmic inclusions characteristic of Parkinson's disease. α -Synuclein appears to associate with other proteins that aggregate and is found in β -amyloid plaques and neuritic tangles in Alzheimer's disease.
- References:**
- 1) Ueda, K. et al. (1994) Biochem. Biophys. Res. Commun. **205**, 1366
 - 2) Shin, E. C., et al. (1999) Mol. Cells **10**, 65
 - 3) Park, S. M. et al. (2002) Blood, **100**(7), 2506
 - 4) Conway, K.A. et. al., (2000) Biochemistry, **39**: 2552
 - 5) Jakes, R. et al. (1994), FEBS Letters, **345**: 27
 - 6) Masliah, E. et. al., (2001) Proc. Natl. Acad. Sci., USA, **98**: 12245
 - 7) Ueda, K., et. al. (1993) Proc. Natl. Acad. Sci., USA, **90**: 11282

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