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DATA SHEET

- Product Name:** Alpha-Synuclein, 1-95
- Catalog #:** S-1012
- Source:** Recombinant. A DNA sequence encoding the human alpha-synuclein (1-95) sequence was expressed in E. coli.
- Molecular Mass:** 9,391 (95 amino acids)
- Sequence :** MDVFMKGLSKAKEGVVAAAETKQGVAEAAGKTKEGVLYV
GSKTKEGVVHGVATVAEKTKEQVTNVGGAVVTGVTAVAQK
TVEGAGSIAAATGFV
- 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:** A deletion mutant of α -synuclein (amino acids 1-95), which contains the N-terminal amphipathic domain and the NAC region,^{2,4}. 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 disease³.
- References:**
- 1) Conway, K.A. et. al., (2000) Biochemistry, **39**: 2552
 - 2) Jakes, R. et al. (1994), FEBS Letters, **345**: 27
 - 3) Masliah, E. et. al., (2001) Proc. Natl. Acad. Sci., USA, **98**: 12245
 - 4) Ueda, K., et. al. (1993) Proc. Natl. Acad. Sci., USA, **90**: 11282

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