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DATA SHEET

- Product Name:** Alpha-Synuclein, 96-140
- Catalog #:** S-1014
- Source:** Recombinant. A DNA sequence encoding the human alpha-synuclein (96-140) sequence was expressed in E. coli. Additional amino acid(Met) is attached at the N-terminus.
- Molecular Mass:** 5,217 (46 amino acids)
- Sequence :** MKKDQL GKNEEGAPQE GILEDMPVDP DNEAYEMPSE EGYQDYEEPA
- 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:** -20⁰C
- Description:** A deletion mutant of α -synuclein (amino acids 96-140). Additional amino acid(Met) is attached at the N-terminus ^{1,2}. 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 disease⁶.
- References:**
- 1) Park, S. M. *et al.* (2002) *Blood*, **100**(7) 2506
 - 2) Park, S. M. *et al.* (2002) *Biochemistry*. **41**, 4137
 - 3) Conway, K.A. *et al.*, (2000) *Biochemistry*, **39**: 2552
 - 4) Jakes, R. *et al.* (1994), *FEBS Letters*, **345**: 27
 - 5) Masliah, E. *et al.*, (2001) *Proc. Natl. Acad. Sci., USA*, **98**: 12245
 - 6) Ueda, K., *et al.* (1993) *Proc. Natl. Acad. Sci., USA*, **90**: 11282

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www.rpeptide.com

4241 Mars Hill Road • Bogart • Georgia • 30622 • USA
Tel 678-753-0747 • Fax 678-753-0746 • E-mail info@rpeptide.com