

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 Da theoretical

Protein Purity: >95% by SDS-PAGE and Mass Spec.

Counter Ion: 20mM Tris-HCl, 100mM NaCl pH 7.4

Supplied As: White lyophilized powder

Resuspension: Resuspend in water at conc. of .1-1 mg/ml. Recommended to briefly centrifuge to ensure full resuspension of product.

Storage: -20°C

Description:

Alpha-Synuclein (α -Synuclein) is a 14 kD (140 amino acids) acidic presynaptic protein and is a major component of Parkinson's Disease (PD) aggregates. α -Synuclein is implicated in the pathogenesis of PD and related neurodegenerative disorders. α -Synuclein also accumulates in the brains of sporadic PD patients as a major component of Lewy bodies, which are intraneuronal cytoplasmic inclusions characteristic of PD. α -Synuclein appears to associate with other proteins that aggregate and is found in beta-amyloid plaques and neuritic tangles in Alzheimer's disease³. rPeptide offers a wide array of synuclein products, including fragments, mutants, preformed fibrils, and labeled versions in addition to the wild-type protein. A deletion mutant of α -synuclein (amino acids 96-140). Additional amino acid (Met) is attached at the N-terminus.

References:

1. Conway, K., 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
5. Grozdanov, V., et al., (2019) Ann Neurol, *86(4)*: 593-606

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