

## **DATA SHEET**

**Product Name:** Alpha-Synuclein, A30P Mutant

**Catalog** #: S-1005

Source: Recombinant. A DNA sequence encoding the human alpha-synuclein, A30P

mutant sequence was expressed in E. coli

Molecular Mass: 14,486 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:** 

References:

Alpha-Synuclein ( $\alpha$ -Synuclein) is a 14 kD (140 amino acids) acidic presynaptic protein and is a major component of Parkinson's Disease (PD) aggregates.

 $\alpha$ -Synuclein is implicated in the pathogenesis of PD and related

neurodegenerative disorders.  $\alpha$ -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 disease<sup>3</sup>. rPeptide offers a wide array of synuclein products, including fragments, mutants, preformed fibrils, and labeled versions in addition to the wild-type protein. A

point mutant (A30P) of  $\alpha$ -Synuclein gene that has been linked to autosomal deminant early expect Parkinson's Pieces (PD)

dominant early onset Parkinson's Disease (PD).

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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