

DATA SHEET

Product Name: Alpha-Synuclein, Mouse

Catalog #: S-1010

Source: Recombinant. A DNA sequence encoding the mouse alpha-synuclein, was expressed in E. coli

Molecular Mass: 14,485 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 disease⁵. rPeptide offers a wide array of synuclein products, including fragments, mutants, preformed fibrils, and labeled versions in addition to the wild-type protein. Mouse alpha-synuclein has a 95% homologous sequence to human alpha-synuclein. Alpha-synuclein fibrils are prevalent in Lewy bodies, a physiological symptom of Parkinson's Disease.

References:

1. Lashuel, H.A., et al., (2002), J Mol Biol. 322: 1089
2. Park, S.M., et al., (2002) Blood, 100: 2506
3. Polymeropoulos, M.H., et al., (1997), Science, 276: 2045

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