

DATA SHEET

Product Name:	Alpha-Synuclein
Catalog #:	S-1001
Source:	Recombinant. A DNA sequence encoding the human alpha-synuclein (1-140) sequence was expressed in E. coli.
Molecular Mass:	14,460
Protein Purity:	>95% by SDS-PAGE and Mass Spec.
Counter Ion:	Lyophilized in final buffer of 20mM Tris-HCl, 100mM NaCl pH 7.4
Supplied As:	White lyophilized powder
Resuspension:	Resuspend in water at conc. of 1 mg/ml. This will give you a final of 20mM Tris-HCl, 100mM NaCl pH 7.4
Storage:	-20°C
Description:	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 disease ³ .
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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