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## DATA SHEET

<b>Product Name:</b>	Alpha-Synuclein, 1-60
<b>Catalog #:</b>	S-1011
<b>Source:</b>	Recombinant. A DNA sequence encoding the human alpha-synuclein (1-60) sequence was expressed in E. coli.
<b>Molecular Mass:</b>	6,149 (60 amino acids)
<b>Sequence :</b>	MDVFMKGLSKAKEGVVAAAEEKTKQGVAAEAAGKTKEGVLYV GSKTKEGVVHGVATVAEKT
<b>Protein Purity:</b>	>95% by SDS-PAGE
<b>Counter Ion:</b>	Lyophilized in final buffer of 20 mM Tris/HCl, pH 7.5, 100 mM NaCl
<b>Supplied As:</b>	White lyophilized powder
<b>Resuspension:</b>	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
<b>Storage:</b>	-20 <sup>0</sup> C
<b>Description:</b>	<p>A deletion mutant of <math>\alpha</math>-synuclein (amino acids 1-60), which contains the N-terminal amphipathic domain,<sup>2,4</sup>.</p> <p>Alpha-Synuclein (<math>\alpha</math>-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. <math>\alpha</math>-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. <math>\alpha</math>-Synuclein appears to associate with other proteins that aggregate and is found in <math>\beta</math>-amyloid plaques and neuritic tangles in Alzheimer's disease<sup>3</sup>.</p>
<b>References:</b>	<ol style="list-style-type: none"><li>1) Conway, K.A. et. al., (2000) Biochemistry, <b>39</b>: 2552</li><li>2) Jakes, R. et al. (1994), FEBS Letters, <b>345</b>: 27</li><li>3) Masliah, E. et. al., (2001) Proc. Natl. Acad. Sci., USA, <b>98</b>: 12245</li><li>4) Ueda, K., et. al. (1993) Proc. Natl. Acad. Sci., USA, <b>90</b>: 11282</li></ol>

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