

## DATA SHEET

**Product Name:** Alpha-Synuclein, 1-122

**Catalog #:** S-1025

**Source:** Recombinant. A DNA sequence encoding the human Alpha-Synuclein (1-122) sequence was expressed in E. coli

**Molecular Mass:** 12,341 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 .1-1mg/ml. Recommended to briefly centrifuge to ensure full resuspension of product.

**Storage:** -20°C

**Description:** Alpha-Synuclein ( $\alpha$ -Synuclein) is a presynaptic protein found to be a major component of Parkinson's Disease (PD) aggregates and is implicated in the pathogenesis of PD and related neurodegenerative disorders. Recently, proteolytic processing of Alpha-Synuclein resulting in C-terminal truncation was implicated in the conversion of the protein to pathological forms. Expressed recombinantly in E. coli, human Alpha-Synuclein 1-122 is purified to our highest standards to ensure batch-to-batch consistency in both purity and quality. The Alpha-Synuclein 1-122 is sold in 20mM Tris, 100mM NaCl, pH 7.4 to ensure a highly monomeric starting material that may be suited to aggregation studies, seeding experiments, molecular standards, and more.

**References:**

1. McGlinchey, R., et al., (2019) JBC, 294: 25
2. Yoo, H., et al., (2022) BMB Reports, 55: 7
3. Sorrentino, Z., et al., (2019) JBC, 293: 49

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