

DATA SHEET

Product Name: Alpha-Synuclein 98AA, Preformed Fibrils

Catalog #: ASF-1026

Source: Recombinant. A DNA sequence encoding the human Alpha-Synuclein 98AA sequence was expressed in E. coli and was then made into preformed fibrils.

Estimated Size: 50nm-200nm*

Protein Purity: >95%

Counter Ion: 200mM Tris-HCl, 250mM NaCl pH 7.4

Supplied As: Frozen Liquid

Storage: -80°C

Description: Alpha-Synuclein (α -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. Expressed recombinantly in E. coli, Alpha-Synuclein 98 is a splicing variant that lacks exons 3 (G41-T54) and 5 (N103-E130) and is purified to our highest standards to ensure batch-to-batch consistency in both purity and quality. This form of human Alpha-Synuclein was then formed into fibrils according to rPeptide's proprietary methods. Fibril formation is determined by TEM and thioflavin assay. The Alpha-Synuclein 98 fibrils are sold in 200mM Tris, 250mM NaCl, pH 7.4 and may be suitable for experimental use or as controls in aggregation kinetics, fibril morphology, seeding experiments, or in vivo imaging.

References:

1. Du, T., et al., (2019), *Frontiers in Molecular Neuroscience*, 12, 189
2. Beyer, K., et al., (2008), *Neurogenetics*, 9 15-23
3. Röntgen, A., et al., (2024) *Biophysics and Computational Biology*, 121, 7

Notes: *The preformed fibrils were produced from recombinantly purified, monomeric protein. The fibrils have not been tested for activity or stability. The product has an average estimated size of 50nm-200nm as determined by TEM.

For research use only. Not for use in humans.