DATA SHEET

Product Name:	ABT Fibril Complex
Catalog #:	ASTFC-1001
Source:	Recombinant. DNA sequences encoding the human Alpha-Synuclein, Beta-Amyloid 1-42, and Tau-441 sequences were expressed in E. coli and then made into preformed fibrils.
Estimated Size:	50nm-200nm*
Protein Purity:	>95%
Counter Ion:	20mM Tris-HCl, 150mM NaCl pH 7.4
Supplied As:	Liquid
Storage:	–80^{0}C
Description:	As research continues to show the relationships among various molecules such as Beta-Amyloid peptides, Tau isoforms, and Synuclein proteins in AD, rPeptide strives to provide relevant products for studies into those relationships. With this in mind, we have introduced a product which is a complex of fibrils brought about by the aggregation and interaction of these ultra-pure monomeric molecules in vitro. This Preformed Fibril Complex of Alpha-Synuclein, Beta-Amyloid 1-42, and Tau-441 aggregates may be used as a model for the pathogenic form of Amyloid plaques and Tau NFTs in Alzheimer's Disease. Expressed recombinantly in E. coli, human Tau-441, Beta-Amyloid 1-42, and Alpha-Synuclein are all purified to our highest standards to ensure batch-to-batch consistency in both purity and quality. The three proteins are then made into a fibril complex by proprietary methods prior to confirmation via thioflavin assay and electron microscopy. The fibril complexes may be suitable for applications such as plaque formation and stability, seeding experiments, aggregation studies, or preformed fibril injections. Applied to either in vivo or in vitro experiments, these fibril complexes may be utilized as a model for amyloid plaques to investigate the mechanism of various neurological disorders.
References:	1. Chen, G., et al., (2017) Nature, *38*: 1205-1235 2. Kazmierczak A., et al., (2008) Neurochemistry International, *53*: (6-8) 263-269 3. Gamblin, T.C., et al., (2003) PNAS, *100*: (17) 10032-10037
Notes:	*The Preformed Fibrils were produced from recombinantly purified, native 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.

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