

## DATA SHEET

**Product Name:** FITC Beta-Amyloid (1-42) Preformed Fibrils

**Catalog #:** AFF-1113

**Source:** Recombinant. A DNA sequence encoding the human Beta-Amyloid (1-42) sequence was expressed in E. coli with FITC molecules attached for fluorescence. This fluorescent monomer underwent proprietary fibrillization procedures.

**Estimated Size:** 50nm-200nm\*

**Protein Purity:** >97%

**Counter Ion:** 20mM Tris, 150mM NaCl, pH 7.4

**Supplied As:** Liquid

**Storage:** -80°C

**Description:** While some fluorescent Beta-Amyloid on the market uses intrinsic fluorescence and adds in tryptophan residues by mutations, rPeptide's human Beta-Amyloid has been covalently labeled with Fluorescein Isothiocyanate and assayed for fluorescence. Lysine residues of the native Beta-Amyloid sequence were used as labeling sites, leaving the cysteine residues unaffected. This FITC labeled form of Beta-Amyloid (1-42) was then formed into fibrils according to rPeptide's proprietary methods. Fibril formation is determined by TEM and thioflavin assay, while fluorescence is confirmed before fibrillization by end point fluorescence assay and after by LM. These FITC Beta-Amyloid (1-42) Preformed Fibrils are ideal for experimental use or as controls in aggregation kinetics, fibril morphology, seeding experiments, or in vivo imaging.

**References:**

1. Bryan, L., et al., (2022) ACS Omega, 7: 50 47009-47014
2. Xu, Y., et al., (2016) Mol Neurodegeneration, 11: 32
3. Calvo-Rodriguez, M., (2019) Acta Neuropathol Commun, 7: 171

**Notes:** \*The preformed fibrils were produced from recombinantly purified, FITC-labeled 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.

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