

DATA SHEET

Product Name:	Tau-441 Preformed Fibrils
Catalog #:	TF-1001
Source:	Recombinant. A DNA sequence encoding the human tau-441 (2N4R isoform) sequence was expressed in E. coli and was then made into preformed fibrils.
Estimated Size:	50nm-200nm*
Protein Purity:	>90%
Counter Ion:	100mM MES, 150mM NaCl pH 6.8
Supplied As:	Liquid
Storage:	-80°C

Description: These preformed fibrils of tau-441 may be used as a model for the pathogenic form of tau in numerous tauopathies. Sourced from E. coli, tau-441 fibrils were prepared and confirmed by thioflavin assay and electron microscopy, which shows an average size ranging from 50nm-200nm. Applications of this product range from in vitro studies on fibril formation and stability¹ to in vivo studies on cellular uptake, cell viability and pathway activation². This product is also suitable for use in mouse models for studies involving memory, neuronal health, or seeding and prion like spreading³. Recent assessment of the Amyloid hypothesis has led to the realization that wildtype tau is accumulated in various tauopathies including Alzheimer's disease, Pick's disease, and progressive supranuclear palsy among others. Applied to either in vivo or in vitro experiments, these fibrils may be utilized to investigate the mechanism of various tauopathies.

References:

1. Paul, A., et al., (2021) FEBS J. doi: 10.1111/febs.15741
2. Wang, P., Ye, Y., (2021) Nat Commun., *12(1)*: 95
3. Veys, L., et al., (2021) Front Aging Neurosci., *12*: 614587

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