

Human Tau (K18) protein, mutant P301L (Pre-formed Fibrils)

Cat. No. GTX17675-pro

Applications Functional Assay**Species** Human**Package**

200 µg, 100 µg

Applications

Application Note

Thioflavin T emission curve shows increased fluorescence (correlated to tau protein fibrillation) when active tau PFFs are combined with active tau monomers.

*For best results, sonicate immediately prior to use.

Properties

Form Liquid**Buffer** 10mM HEPES, 100mM NaCl**Preservative** No preservatives**Storage** Store as concentrated solution. Aliquot and store at -80°C. Avoid freeze-thaw cycles.**Concentration** Batch dependent (Please refer to the vial label for the specific concentration.)**Region/Sequence** Partial Tau without tagged; SRLQTAPVPM PDLKNVSKI GSTENLKHQP GGGKVQIINK KLDLSNVQSK
CGSKDNIKHVLGGGSVQIVY KPVDSLKVTs KCGSLGNIHH KPGGGQVEVK SEKLDFKDRV QSKIGSLDNI THVPGGGNKK
IETHKLTFRE**Expression System** E. coli**Purification** Purified by ion-exchange chromatography**Conjugation** Unconjugated**Note**

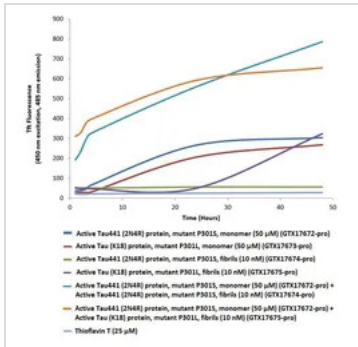
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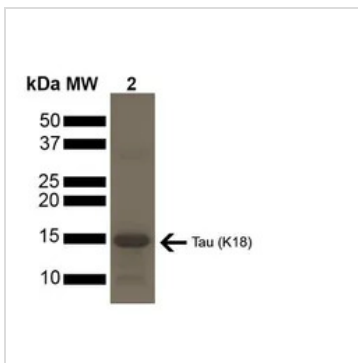
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DATA IMAGES



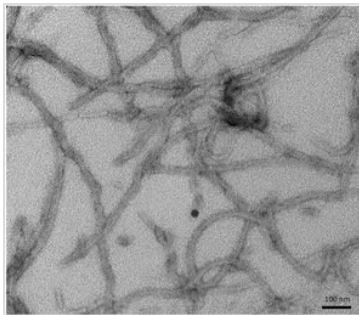
GTX17675-pro Image

Thioflavin T is a fluorescent dye that binds to beta sheet-rich structures, such as those in tau fibrils. Upon binding, the emission spectrum of the dye experiences a red-shift and increased fluorescence intensity. Thioflavin T emission curves show increased fluorescence (correlated to tau aggregation) over time in tau preformed fibrils (GTX17675-pro). Tau preformed fibrils (GTX17675-pro) seed the formation of new tau fibrils when combined with tau monomers (GTX17672-pro). Thioflavin T λ_{ex} = 450 nm, λ_{em} = 485 nm.



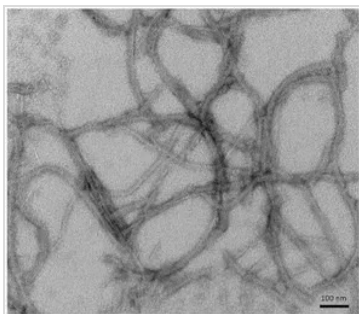
GTX17675-pro Image

SDS-PAGE of ~15 kDa Human Tau (K18) protein, mutant P301L (preformed fibrils (PFFs)) (GTX17675-pro). Lane 1: MW Ladder. Lane 2: Human Tau (K18) protein, mutant P301L (fibrils) (GTX17675-pro).



GTX17675-pro Image

TEM image of GTX17675-pro Human Tau (K18) protein, mutant P301L (Pre-formed Fibrils).



GTX17675-pro Image

TEM image of GTX17675-pro Human Tau (K18) protein, mutant P301L (Pre-formed Fibrils).



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