

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

Cat. No. GTX17675-pro

Application Functional Assay

Species Human

Package

200 µg, 100 µg

APPLICATION

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 pH7.4, 100mM NaCl

Preservative No preservative

Storage Store as concentrated solution. Aliquot and store at -20°C or below. 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 KPVDSLKVT S KCGSLGNIHH KPGGGQVEVK SEKLDFKDRV QSKIGSLDNI THVPGGGNKK IETHKLTFRE

Expression System E. coli

Purification Purified by ion-exchange chromatography

Conjugation Unconjugated

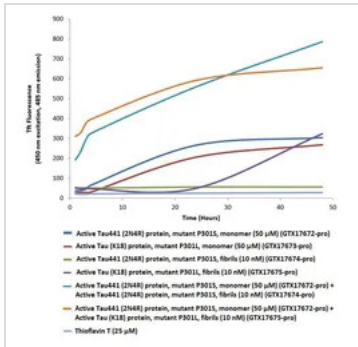
Note

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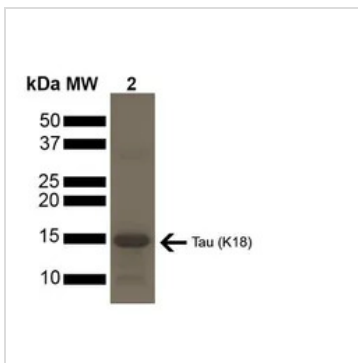
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DATA IMAGES

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).



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