Human Tau441 (2N4R) protein, mutant P301S (monomer)

Cat. No. GTX17672-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 tau PFFs are combined with tau monomers.

Properties

Form	Liquid
Buffer	10mM HEPES, 100mM NaCl
Preservative	No preservatives
Storage	Store as concentrated solution. Aliquot and store at -20ºC or below. Avoid freeze-thaw cycles.
Concentration	Batch dependent (Please refer to the vial label for the specific concentration.)
Region/Sequence	Full-length without tagged; MAEPRQEFEV MEDHAGTYGL GDRKDQGGYT MHQDQEGDTD AGLKESPLQT PTEDGSEEPG SETSDAKSTP TAEDVTAPLV DEGAPGKQAA AQPHTEIPEG TTAEEAGIGD TPSLEDEAAG HVTQARMVSK SKDGTGSDDK KAKGADGKTK IATPRGAAPP GQKGQANATR IPAKTPPAPK TPPSSGEPPK SGDRSGYSSP GSPGTPGSRS RTPSLPTPPT REPKKVAVVR TPPKSPSSAK SRLQTAPVPM PDLKNVKSKI GSTENLKHQP GGGKVQIINK KLDLSNVQSK CGSKDNIKHVSGGGSVQIVY KPVDLSKVTS KCGSLGNIHH KPGGGQVEVK SEKLDFKDRV QSKIGSLDNI THVPGGGNKK IETHKLTFRE NAKAKTDHGA EIVYKSPVVS GDTSPRHLSN VSSTGSIDMV DSPQLATLAD EVSASLAKQG L
Expression System	E. coli
Purification	Purified by ion-exchange chromatography
Conjugation	Unconjugated
Note	For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption. Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

For full product information, images and publications, please visit our website.

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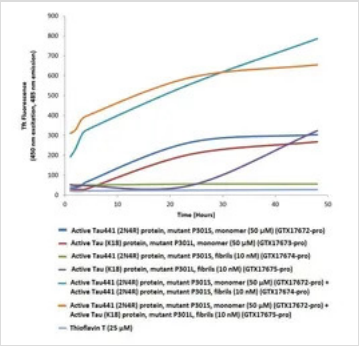
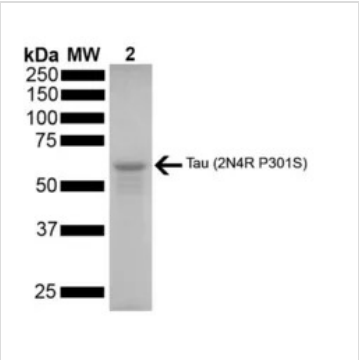
DATA IMAGES



GTX17672-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 monomers (GTX17672-pro). A greater increase in fluorescence is seen when 50 uM monomer (GTX17672-pro) is combined with 10 nM PFFs (GTX17674-pro or GTX17675-pro), as the fibrils seed the formation of new fibrils from the pool of monomers. Thioflavin T ex = 450 nm, em = 485 nm.



GTX17672-pro Image

SDS-PAGE of ~67 kDa Human Tau441 (2N4R) protein, mutant P301S (monomer) (GTX17672-pro).
Lane 1: MW ladder. Lane 2: Human Tau441 (2N4R) protein, mutant P301S (monomer) (GTX17672-pro).

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