

# Product Datasheet

## Recombinant Human Tau Active, (K18), P301L Mutant, Pre-formed Fibrils Protein NBP2-76793-100ug

Unit Size: 1 x 100ug Vials

Store at -80C. Avoid freeze-thaw cycles.

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**NBP2-76793-100ug**

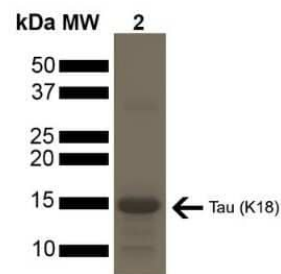
Recombinant Human Tau Active, (K18), P301L Mutant, Pre-formed Fibrils Protein

| Product Information         |  |
|-----------------------------|--|
| Unit Size                   | 1 x 100ug Vials  |
| Concentration               | Please see the vial label for concentration. If unlisted please contact technical services.  |
| Storage                     | Store at -80C. Avoid freeze-thaw cycles.   |
| Preservative                | No Preservative  |
| Purity                      | Ion exchange chromatography  |
| Buffer                      | 10 mM HEPES (pH 7.4), 100 mM NaCl  |
| Target Molecular Weight     | 15.1 kDa   |
| Product Description         |  |
| Description                 | <p>An un-tagged partial Human Recombinant Tau Protein Pre-Formed Fibrils, Accession #: P10636</p> <p><b>Source:</b> <i>E. coli</i></p> <p><b>Amino Acid Sequence:</b><br/> SRLQTAPVPM PDLKNVKS KI GSTENLKHQP GGGKVQIINK KLDLSNVQSK<br/> CGSKDNIKHV LGGGSVQIVY KPDLSKVTS KCGSLGNIHH KPGGGQVEVK<br/> SEKLDFKDRV QSKIGSLDNI THVPGGGNKK IETHKLTFRE</p> |
| Gene ID                     | 4137   |
| Gene Symbol                 | MAPT   |
| Species                     | Human  |
| Details of Functionality    | Thioflavin T emission curve shows increased fluorescence (correlated to tau protein fibrillation) when active tau PFFs are combined with active tau monomers.  |
| Product Application Details |  |
| Applications                | Western Blot, Electron Microscopy, In vitro assay, In vivo assay, SDS-Page   |
| Recommended Dilutions       | Western Blot, In vitro assay, Electron Microscopy, In vivo assay, SDS-Page   |

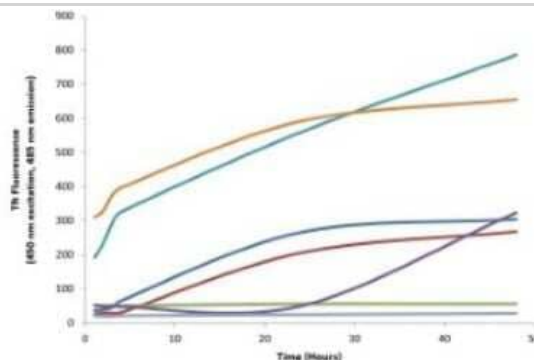


## Images

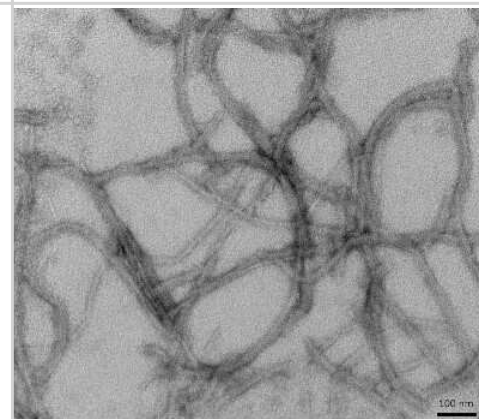
SDS-Page: Recombinant Human Tau Active, (K18), P301L Mutant, Pre-formed Fibrils Protein [NBP2-76793] - SDS-PAGE of ~15 kDa Active Human Tau Protein K18 P301L Preformed Fibrils (NBP2-76793). Lane 1: MW Ladder. Lane 2: Tau Protein Preformed Fibrils (NBP2-76793).



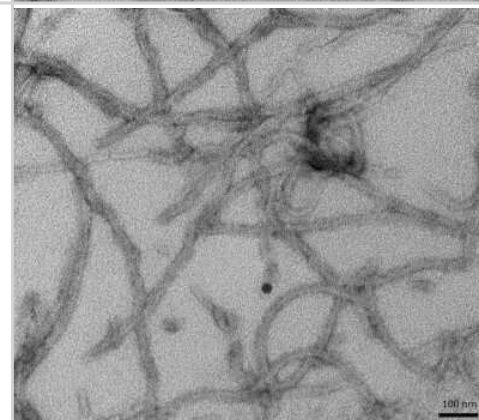
In vitro assay: Recombinant Human Tau Active, (K18), P301L Mutant, Pre-formed Fibrils Protein [NBP2-76793] - Thioflavin T is a fluorescent dye that binds to beta sheet-rich structures, such as those in tau fibrils. Upon binding, the emission spectrum of the dye experiences a red-shift and increased fluorescence intensity. Thioflavin T emission curves show increased fluorescence (correlated to tau aggregation) over time in tau Pre-formed Fibrils (NBP2-76793). Tau Pre-formed Fibrils (NBP2-76793) seed the formation of new tau fibrils when combined with tau monomers. Thioflavin T ex = 450 nm, em = 485 nm. 10 uM heparin was added to each well.



Electron Microscopy: Recombinant Human Tau Active, (K18), P301L Mutant, Pre-formed Fibrils Protein [NBP2-76793] - TEM of recombinant Tau (K18), P301L mutant Pre-formed Fibrils (PFFs) at 150kx magnification. HV=80kV.



Electron Microscopy: Recombinant Human Tau Active, (K18), P301L Mutant, Pre-formed Fibrils Protein [NBP2-76793] - TEM of recombinant Tau (K18), P301L mutant Pre-formed Fibrils (PFFs) at 150kx magnification. HV=80kV.





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