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## tau Protein (full length, Pro301Ser-Mutant)

100 μg





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Quantity:

Target:	tau	
Protein Characteristics:	Pro301Ser-Mutant, full length	
Origin:	Human	
Source:	Escherichia coli (E. coli)	
Protein Type:	Recombinant	
Biological Activity:	Active	
Application:	SDS-PAGE (SDS), Western Blotting (WB), In vitro Assay (in vitro), In vivo Studies (in vivo)	
Product Details		
Purpose:	Active Human Recombinant Tau441 (2N4R), P301S mutant Protein Monomer	
Sequence:	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 CGSKDNIKHV	
	SGGGSVQIVY KPVDLSKVTS KCGSLGNIHH KPGGGQVEVK SEKLDFKDRV QSKIGSLDNI	
	THVPGGGNKK IETHKLTFRE NAKAKTDHGA EIVYKSPVVS GDTSPRHLSN VSSTGSIDMV	
	DSPQLATLAD EVSASLAKQG L	
Specificity:	~45.8 kDa	
Purification:	Ion-exchange Purified	

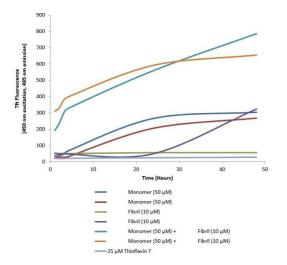
#### **Product Details**

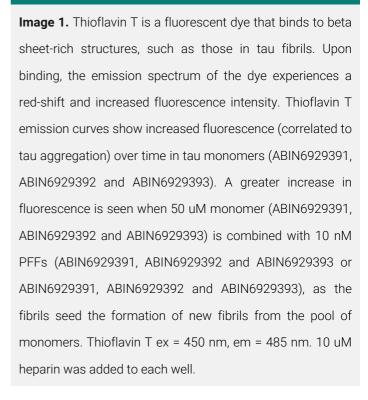
Biological Activity Comment:

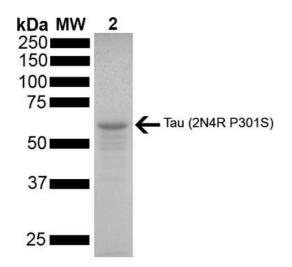
Thioflavin T emission curve shows increased fluorescence (correlated to tau protein fibrillation) when tau PFFs are combined with tau monomers.

### Target Details

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Target:	tau	
Alternative Name:	Tau (tau Products)	
Background:	Alzheimer's Disease (AD) is the most common neurodegenerative disease, affecting 10 % of	
	seniors over the age of 65 (1). It was named after Alois Alzheimer, a German scientist who	
	discovered tangled bundles of fibrils where neurons had once been in the brain of a deceased	
	patient in 1907 (2). Tau (tubulin-associated unit) is normally located in the axons of neurons	
	where it stabilizes microtubules. Tauopathies such as AD are characterized by neurofibrillary	
	tangles containing hyperphosphorylated tau fibrils (3). There are six isoforms of tau in the adult	
	human brain: three with four repeat units (4R) and three with three repeat units (3R) (4). 2N4R,	
	or Tau-441 is the full length tau protein. P301S is a mutation encoded by exon 10 (4) that	
	impairs the ability of tau to assemble microtubules (5).	
NCBI Accession:	NP_005901	
UniProt:	P10636	
Application Details		
Application Notes:	Optimal working dilution should be determined by the investigator.	
Restrictions:	For Research Use only	
Handling		
Concentration:	Lot specific	
Buffer:	10 mM HEPES, 100 mM NaCl pH 7.4	
Storage:	-80 °C	







#### **SDS-PAGE**

Image 2. SDS-PAGE of ~67 kDa Human Tau Protein 2N4R P301S Monomer (ABIN6929391, ABIN6929392 and ABIN6929393). Lane 1: MW ladder. Lane 2: Tau Protein Monomer (ABIN6929391, ABIN6929392 and ABIN6929393)