

Recombinant Human Microtubule-Associated Protein Tau

Cat. No. MAPT-1572H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human full-length tag-free Tau-352 Protein was expressed in <i>E. coli</i> . MW=49kDa.
Species	Human
Source	<i>E. coli</i>
Description	Tau-352 or Tau-A is a member of the Tau family of proteins which function to stabilize the microtubules by binding to them. Tau proteins are subject to phosphorylation and this phenomenon regulates the association of the Tau protein with the microtubules. Deposits of Alzheimer's disease AD-associated proteins, such as hyperphosphorylated Tau, as well as other shared misfolded proteins, such as, β-amyloid precursor protein (βAPP), ubiquitin, and various chaperones and protein kinases are thought to play a pathologic role in the cognitive decline and muscular failure. Malfunctioning of Tau proteins is associated with microtubules disintegration and collapsing of the neuronal transport system.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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GENE INFORMATION

Gene Name	MAPT microtubule-associated protein tau [Homo sapiens]
Synonyms	MAPT; microtubule-associated protein tau; TAU; MSTD; PPND; DDPAC; MAPTL; MTBT1; MTBT2; FTDP-17; FLJ31424; MGC138549; microtubule-associated protein tau, isoform 4; G protein beta1/gamma2 subunit-interacting factor 1; Microtubule-associated protein tau; Neurofibrillary tangle protein; Paired helical filament-tau
Gene ID	4137
mRNA Refseq	NM_001123066
Protein Refseq	NP_001116538
UniProt ID	P10636
Chromosome Location	17q21.1
MIM	157140
Pathway	Alzheimer"s disease; MAPK signaling pathway; Apoptosis
Function	axon; cell projection; cytoplasm; cytoskeleton; growth cone; microtubule; microtubule associated complex; plasma membrane; tubulin complex

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