

## Recombinant Human MAPT

Cat. No. MAPT-30093TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human tag-free Tau, 441aa, 64kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>This gene encodes the microtubule-associated protein tau (MAPT) whose transcript undergoes complex, regulated alternative splicing, giving rise to several mRNA species. MAPT transcripts are differentially expressed in the nervous system, depending on stage of neuronal maturation and neuron type. MAPT gene mutations have been associated with several neurodegenerative disorders such as Alzheimers disease, Picks disease, frontotemporal dementia, cortico-basal degeneration and progressive supranuclear palsy.</p>
<b>Tissue specificity</b>	Expressed in neurons. Isoform PNS-tau is expressed in the peripheral nervous system while the others are expressed in the central nervous system.
<b>Form</b>	Liquid
<b>Storage buffer</b>	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM PMSF, pH 7.5
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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**Sequence Similarities** Contains 4 Tau/MAP repeats.

## GENE INFORMATION

**Gene Name** [MAPT microtubule-associated protein tau \[ Homo sapiens \]](#)

**Official Symbol** [MAPT](#)

**Synonyms** MAPT; microtubule-associated protein tau; DDPAC, MAPTL; FLJ31424; FTDP 17; G protein beta1/gamma2 subunit interacting factor 1; MGC138549; microtubule associated protein tau; isoform 4; MSTD; MTBT1; MTBT2; PPND; tau; TAU;

**Gene ID** [4137](#)

**mRNA Refseq** [NM\\_001123066](#)

**Protein Refseq** [NP\\_001116538](#)

**MIM** [157140](#)

**Uniprot ID** [P10636](#)

**Chromosome Location** 17q21

**Pathway** Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Apoptosis, organism-specific biosystem; Apoptotic cleavage of cellular proteins, organism-specific biosystem; Apoptotic executionphase, organism-specific biosystem;

**Function** SH3 domain binding; apolipoprotein E binding; enzyme binding; lipoprotein particle

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