

# Recombinant Human Microtubule-associated Protein Tau, His-tagged

**Cat. No.** MAPT-3368H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human Tau protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW = 41.8kDa(401aa).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Tau, also known as microtubule-associated protein tau (MAPT), is a protein that stabilizes microtubules. It is abundant in neurons in the central nervous system and is less common elsewhere. When this protein is defective, and no longer stabilizes microtubules properly, it can result in dementias, such as Alzheimer"s disease.
<b>Form</b>	Liquid. In 20 mM Tris-HCl Buffer (pH 7.5) containing 1 mM DTT, 20% Glycerol.
<b>Purity</b>	> 85% by SDS - PAGE.
<b>Concentration</b>	0.5 mg/ml (determined by BCA assay).
<b>Sequences Of Amino Acids</b>	MGSSHHHHHH SSSLVPRGSH MAEPRQEFEV MEDHAGTYGL GDRKDQGGYT MH QDQEGDTD AGLKESPLQT PTEDGSEEPG SETSDAKSTPTAEAEAEAGIG DTP SLEDEAA GHVTQARMVS KSKDGTGSDD KKAKGADGKT KIATPRGAAP PG KKGQANAT RIPAKTTPAP KTPPSSGEPP KSGDRSGYSS PGSPGTPGSR SR TPSLPTPP TREPKKVAVV RTPPKSPSSA KSRLQTAPVP MPDLKNVSK IG STENLKHQ PGGGKVQIVYKPVDSLKVTS KCGSLGNIHH KPGGGQVEVK SE

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KLDFKDRV QSKIGSLDNI THVPGGGNKK IETHKLTFRE NAKAKTDHGA EIVYK  
SPVVSGDTSRHLN VSSTGSIDMV DSPQLATLAD EVSASLAKQG L.

**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Pathways**

Alzheimer"s disease; MAPK signaling pathway; Apoptosis

## 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](#)

**MIM**

[157140](#)

**UniProt ID**

[P10636](#)

**Chromosome  
Location**

17q21.1

**Function**

axon; cell projection; cytoplasm; cytoskeleton; growth cone; microtubule; microtubule

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associated complex; plasma membrane; tubulin complex

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