

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

**Cat. No.** MAPT-5073H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human Tau protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
<b>Species</b>	Human
<b>Source</b>	Human
<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>Concentration</b>	0.5 mg/ml
<b>Form</b>	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 20% glycerol.
<b>Purity</b>	> 80% by SDS - PAGE
<b>Sequence</b>	1-412 amino acids: MGSSHHHHHH SSGLVPRGSH MAEPRQFEV MEDHAGTYGL GDRKDQGGYT MHQDQEGDTD AGLKESPLQT PTEDGSEEPG SETSDAKSTP TAEAEAGIG DTSPLEDEAA GHVTQARMVS KSKDGTGSDD KKAKGADGKT KIATPRGAAP PGQKGQANAT RIPAKTTPAP KTPPSSGEPP KSGDRSGYSS PGSPGTPGSR SRTPSLPTPP TRE

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<b>Molecular Mass</b>	45.1 kDa (432aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)
<b>Applications</b>	SDS-PAGE
<b>Storage</b>	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">MAPT microtubule-associated protein tau [ Homo sapiens ]</a>
<b>Official Symbol</b>	MAPT
<b>Synonyms</b>	MAPT; microtubule-associated protein tau; TAU; MSTD; PPND; DDPAC; MAPTL; MTBT1; MTBT2; FTDP-17; FLJ31424; Microtubule-associated protein tau; Neurofibrillary tangle protein; Paired helical filament-tau; MGC138549; microtubule-associated protein tau, isoform 4; G protein beta1/gamma2 subunit-interacting factor 1
<b>Gene ID</b>	<a href="#">4137</a>
<b>mRNA Refseq</b>	<a href="#">NM_001123066</a>
<b>Protein Refseq</b>	<a href="#">NP_001116538</a>
<b>MIM</b>	<a href="#">157140</a>
<b>UniProt ID</b>	P10636
<b>Chromosome</b>	17q21.1

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**Location****Pathway**

Alzheimer"s disease; MAPK signaling pathway; Apoptosis

**Function**

axon; cell projection; cytoplasm; cytoskeleton; growth cone; microtubule; microtubule associated complex; plasma membrane; tubulin complex

**Rendering of****MAPTfrom PDB 1I8H** Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA