

## Recombinant Human MAPT, His-tagged

Cat. No. MAPT-2874H 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>	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>Sequence</b>	MGSSHHHHHH SSSLVPRGSH MAEPRQEFEV MEDHAGTYGL GDRKDQGGYT MHQDQEGDTD AGLKAE EAGI GDTPSLEDEA AGHVTQARMV SKSKDGTGSD DKKAKGADGK TKIATPRGAA PPGQKGQANA TRIPAKTPPA PKTPPSSGEP PKSGDRSGYS SPGSPGTPGS RSRTPSLPTP TREP KKVAV VRTPPKSPSS AKSRLQTAPV PMPDLKNVKS KIGSTENLKH QPGGGKVQII NKKLDLSNVQ SKCGSKDNIK HVPGGGSVQI VYKPVDSLKV TSKCGSLGNI HHKPGGGQVE VKSEKLD FKD RVQSKIGSLD NITHVPGGGN KKIETHK LTF RENA KAKTDH GAEIVYKSPV VSGDTSRHL SNVSSTGSID MVDSPQLATL ADEVSASLAK QGL.
<b>Purity</b>	> 90% by SDS – PAGE.
<b>MW</b>	42.1 kDa (403aa) confirmed by MALDI-TOF.

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<b>Form</b>	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT, 50mM NaCl, 0.1mM PMSF.
<b>Concentration</b>	1mg/ml (determined by Bradford assay).
<b>Storage</b>	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.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">MAPT microtubule-associated protein tau [ Homo sapiens ]</a>
<b>Synonyms</b>	MAPT; microtubule-associated protein tau ; DDPAC, FLJ31424, FTDP-17, MAPTL, MGC138549, MSTD, MTBT1, MTBT2, PPND, TAU; G protein beta1/gamma2 subunit-interacting factor 1; PHF-tau; microtubule-associated protein tau, isoform 4; neurofibrillary tangle protein; paired helical filament-tau
<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>	<a href="#">P10636</a>
<b>Chromosome Location</b>	17q21
<b>Pathway</b>	Alzheimer"s disease; MAPK signaling pathway

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**Function**

SH3 domain binding; apolipoprotein E binding; identical protein binding; lipoprotein particle binding; structural constituent of cytoskeleton

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