

Recombinant Human Microtubule-associated Protein Tau, His-tagged

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

SPECIFICATION

Product Overview	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).
Species	Human
Source	E.coli
Description	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.
Form	Liquid. In 20 mM Tris-HCl Buffer (pH 7.5) containing 1 mM DTT, 20% Glycerol.
Purity	> 85% by SDS - PAGE.
Concentration	0.5 mg/ml (determined by BCA assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MAEPRQEFEV MEDHAGTYGL GDRKDQGGYT MH QDQEGDTD AGLKESPLQT PTEDGSEEPG SETSDAKSTPTAEAAEEAGIG DTP SLEDEAA GHVTQARMVS KSKDGTGSDD KKAKGADGKT KIATPRGAAP PG QKGQANAT RIPA KTPPSSGEPP KSGDRSGYSS PGSPGTPGSR SR TPSLPTPP TREPKKVAVV RTPPKSPSSA KSRLQTAPVP MPDLKNVSK IG STENLKHQ PGGGKVQIVYKPVDLSKVTS 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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