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*E.coli*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 SETSDAKSTPTAEAEEAGIG DTP SLEDEAA GHVTQARMVS KSKDGTGSDD KKAKGADGKT KIATPRGAAP PG QKGQANAT RIPAKTPPAP KTPPSSGEPP KSGDRSGYSS PGSPGTPGSR SR TPSLPTPP TREPKKVAVV RTPPKSPSSA KSRLQTAPVP MPDLKNVKSK IG STENLKHQ PGGGKVQIVYKPVDLSKVTS KCGSLGNIHH KPGGGQVEVK SE

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	KLDFKDRV QSKIGSLDNI THVPGGGNKK IETHKLTFRE NAKAKTDHGA EIVYK SPVVSGDTSPRHLSN 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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