Recombinant Human Microtubule-Associated Protein Tau, His-tagged

Cat. No. MAPT-5073H **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.
Species	Human
Source	Human
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.
Concentration	0.5 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 20% glycerol.
Purity	> 80% by SDS - PAGE
Sequence	1-412 amino acids: MGSSHHHHHH SSGLVPRGSH MAEPRQEFEV MEDHAGTYGL GDRKDQGGYT MHQDQEGDTD AGLKESPLQT PTEDGSEEPG SETSDAKSTP TAEAEEAGIG DTPSLEDEAA GHVTQARMVS KSKDGTGSDD KKAKGADGKT KIATPRGAAP PGQKGQANAT RIPAKTPPAP KTPPSSGEPP KSGDRSGYSS PGSPGTPGSR SRTPSLPTPP TRE

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Molecular Mass	45.1 kDa (432aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)
Applications	SDS-PAGE
Storage	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

Gene Name	MAPT microtubule-associated protein tau [Homo sapiens]
Official Symbol	MAPT
Synonyms	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
Gene ID	4137
mRNA Refseq	NM_001123066
Protein Refseq	NP_001116538
MIM	157140
UniProt ID	P10636
Chromosome	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	

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