

Recombinant Human MAPT Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MAPT-3001H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MAPT MS Standard C13 and N15-labeled recombinant protein (NP_058518) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes the microtubule-associated protein tau (MAPT) whose transcript undergoes complex, regulated alternative splicing, giving rise to several mRNA species. MAPT transcripts are differentially expressed in the nervous system, depending on stage of neuronal maturation and neuron type. MAPT gene mutations have been associated with several neurodegenerative disorders such as Alzheimer's disease, Pick's disease, frontotemporal dementia, cortico-basal degeneration and progressive supranuclear palsy.
Molecular Mass	39.8 kDa
AA Sequence	MAEPRQEFVMEHDHAGTYGLGDRKDQGGYTMHQDQEGD TDAGLKAAEEAGIGDTP SLEDEAAGHVTQARMVSKSKDGTGSDDKKAKGADGKTKIATPRGAAPPGQKGQAN ATRIPAKTPPAPKTPPSSGEPPKSGDRSGYSSPGSPGTPGSRSRTPSLPTPPTREP KKVAVVRTPPKSPSSAKSRLQTAPVPMPLKNVSKIGSTENLKHQPGGGKVQIINK KLDLSNVQSKCGSKDNIKHVPGGGSVQIVYKPDLSKVTSKCGSLGNIHHKPGGGQ VEVKSEKLDFKDRVQSKIGSLDNITHVPGGGNKKIETHKLTFRENAKAKTDHGAEIVY

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	KSPVVSGDTSPRHLSNVSSSTGSIDMVDPQLATLADEVSAASLAKQGLTRTRPLEQKL ISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	MAPT microtubule-associated protein tau [Homo sapiens (human)]
Official Symbol	MAPT
Synonyms	MAPT; microtubule-associated protein tau; DDPAC, MAPTL; FLJ31424; FTDP 17; G protein beta1/gamma2 subunit interacting factor 1; MGC138549; microtubule associated protein tau; isoform 4; MSTD; MTBT1; MTBT2; PPND; tau; TAU; PHF-tau; paired helical filament-tau; neurofibrillary tangle protein; microtubule-associated protein tau, isoform 4; G protein beta1/gamma2 subunit-interacting factor 1; DDPAC; MAPTL; FTDP-17;
Gene ID	4137
mRNA Refseq	NM_016834

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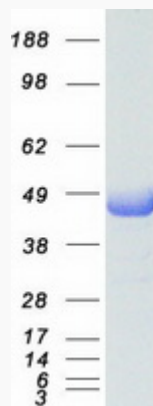
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Protein Refseq NP_058518

MIM 157140

UniProt ID P10636

SDS-PAGE



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