

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

Cat. No. MAPT-032H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MAPT MS Standard C13 and N15-labeled recombinant protein (NP_005901) 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	45.7 kDa
AA Sequence	MAEPRQEFVMDHAGTYGLGDRKDQGGYTMHQDQEGD TDAGLKESPLQTPTED GSEEPGSETSDAKSTPTAEDVTAPLVDEGAPGKQAAQPHTEIPEGTTAE EAGIGDT PSLEDEAAGHVTQARMVSKSKDGTGSDDKKAKGADGKTKIATPRGAAPPGQKGQA NATRIPAKTPPAPKTPPSSGEPPKSGDRSGYSSPGSPGTPGSRSRTPSLPTPTRE PKKVAVVRTPPKSPSSAKSRLQTAPVPM PDLKNVKSIGSTENLKHQPGGGKVQIIN KKLDLSNVQSKCGSKDNIKHVPGGGSVQIVYK PVDLSKVT SKCGSLGNIHHKPGGG

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QVEVKSEKLDKDRVQSKIGSLDNITHVPGGGNKKIETHKLTFRENAKAKTDHGAEIV
YKSPVVSAGDTSPRHLSNVSSSTGSIDMVDSPQLATLADEVSAKQGLTRTRPLEQK
LISEEDLAANDILDYKDDDDKV

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; FTDP-17; MAPTL; MSTD; MTBT1; MTBT2; PPND; PPP1R103; TAU; microtubule-associated protein tau; G protein beta1/gamma2 subunit-interacting factor 1; PHF-tau; neurofibrillary tangle protein; paired helical filament-tau; protein phosphatase 1, regulatory subunit 103

Gene ID [4137](#)

mRNA Refseq [NM_005910](#)

Protein Refseq [NP_005901](#)

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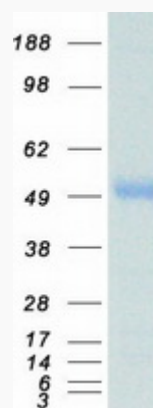
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MIM 157140

UniProt ID P10636

SDS-PAGE



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