Recombinant Full Length Human microtubule associated protein tau Protein, Tag Free

Cat. No. MAPT-10HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human tag-free Tau-441 was expressed in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	1-758aa
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.
Tag	Non
Molecular Mass	~64 kDa
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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Storage Buffer	Supplied as sterile 50 mM Tris-HCl pH 7.5, 50-300 mM NaCl, 1 mM DTT, 10-25% glycerol
Shipping	Enzymes are highly recommended to be shipped at frozen temperature with dry ice. Shipment made at ambient temperature may seriously affect the activity of the ordered products.
References	1. Harada A, et al. (1994) Altered microtubule organization in small-calibre axons of mice lacking tau protein. Nature. 369(6480):488-91. 2. Weingarten MD, et al. (1975) A protein factor essential for microtubule assembly. Proc Natl Acad Sci. 72(5):1858-62. 3. Goedert M, et al. (1989) Multiple isoforms of human microtubule-associated protein tau: sequences and localization in neurofibrillary tangles of Alzheimer''s disease. Neuron. 3(4): 519-26.

GENE INFORMATION

Gene Name	MAPT microtubule associated protein tau [Homo sapiens (human)]
Official Symbol	MAPT
Synonyms	MAPT; microtubule associated protein tau; TAU; MSTD; PPND; DDPAC; MAPTL; MTBT1; MTBT2; tau-40; FTDP-17; PPP1R103; Tau-PHF6; microtubule-associated protein tau; G protein beta1/gamma2 subunit-interacting factor 1; PHF-tau; Tau-derived paired helical filament hexapeptide; neurofibrillary tangle protein; paired helical filament-tau; protein phosphatase 1, regulatory subunit 103
Gene ID	4137
mRNA Refseq	NM_016835

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Protein Refseq	NP_058519
MIM	157140
UniProt ID	P10636

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