Recombinant Human MAPT

Cat. No. MAPT-100H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human tag-free Tau-441 was co-expressed with TTBK1 in E. coli cells. The Tau-441 was phosphorylated by TTBK1 in vivo and in vitro prior to the final chromatography purification.
Species	Human
Source	E.coli
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.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~64-70 kDa
AA Sequence	1-441
Purity	The purity of Tau441, TTBK1-phosphorylated was determined to be >90% by densitometry, approx.

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Applications	Kinase Assay; Western Blot
Stability	1 yr at –70oC from date of shipment.
Storage	Store product at –70oC. 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.
Concentration	0.2 ug/ul

GENE INFORMATION

Gene Name	MAPT?microtubule-associated protein tau [?Homo sapiens?(human)]
Official Symbol	MAPT
Synonyms	MAPT; TAU; MSTD; PPND; DDPAC; MAPTL; MTBT1; MTBT2; FTDP-17; microtubule-associated protein tau; microtubule-associated protein tau; PHF-tau; paired helical filament-tau; neurofibrillary tangle protein; microtubule-associated protein tau, isoform 4; G protein beta1/gamma2 subunit-interacting factor 1
Gene ID	4137
mRNA Refseq	NM_005910
Protein Refseq	NP_005901??
MIM	157140
UniProt ID	P10636

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Chromosome Location	17q21.1
Pathway	Alzheimer"s disease; Caspase-mediated cleavage of cytoskeletal proteins; IL-2 Signaling pathway
Function	SH3 domain binding; apolipoprotein binding; enzyme binding

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