

Recombinant Human MAPT

Cat. No. MAPT-218H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human tag-free Tau-316 was expressed in E. coli cells.
Species	Human
Source	E.coli
Description	Tau-316 encodes the microtubule-associated protein tau (MAPT) whose transcript undergoes complex, regulated alternative splicing, giving rise to several mRNA species. Tau-316 transcripts are differentially expressed in the nervous system, depending on stage of neuronal maturation and neuron type. Tau-316 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	~39 kDa (32.9kDa by MW calculation)
Purity	>90% by densitometry
Applications	Kinase Assay, Western Blot
Storage	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Concentration 0.2 µg/µl

GENE INFORMATION

Gene Name [MAPT microtubule-associated protein tau \[Homo sapiens \]](#)

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_001123066](#)

Protein Refseq [NP_001116538](#)

MIM [157140](#)

UniProt ID [P10636](#)

Chromosome Location 17q21

Pathway Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved

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biosystem; Apoptosis, organism-specific biosystem; Apoptotic cleavage of cellular proteins, organism-specific biosystem; Apoptotic executionphase, organism-specific biosystem; Caspase-mediated cleavage of cytoskeletal proteins, organism-specific biosystem; IL-6 Signaling Pathway, organism-specific biosystem;

Function

SH3 domain binding; apolipoprotein E binding; enzyme binding; lipoprotein particle binding; microtubule binding; protein binding; structural constituent of cytoskeleton;

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