

Recombinant Mouse Mapt Protein, Myc/DDK-tagged

Cat. No. Mapt-3953M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length microtubule-associated protein tau (Mapt), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Promotes microtubule assembly and stability, and might be involved in the establishment and maintenance of neuronal polarity. The C-terminus binds axonal microtubules while the N-terminus binds neural plasma membrane components, suggesting that tau functions as a linker protein between both. Axonal polarity is predetermined by tau localization (in the neuronal cell) in the domain of the cell body defined by the centrosome. The short isoforms allow plasticity of the cytoskeleton whereas the longer isoforms may preferentially play a role in its stabilization.
Molecular Mass	39.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method

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Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name [Mapt microtubule-associated protein tau \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Mapt](#)

Synonyms MAPT; microtubule-associated protein tau; PHF-tau; paired helical filament-tau; neurofibrillary tangle protein; Tau; Mtapt; AI413597; AW045860

Gene ID [17762](#)

mRNA Refseq [NM_010838](#)

Protein Refseq [NP_034968](#)

UniProt ID [P10637](#)

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