

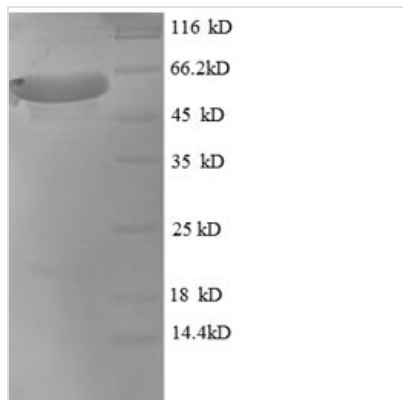


# Recombinant Macaca mulatta Microtubule-associated protein tau (MAPT)

<b>Product Code</b>	CSB-EP013481MOW
<b>Relevance</b>	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.
<b>Abbreviation</b>	Recombinant Rhesus macaque MAPT protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P57786
<b>Alias</b>	Neurofibrillary tangle protein; Paired helical filament-tau ;PHF-tau
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Macaca mulatta (Rhesus macaque)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	AEPRQEFDVMEHDAGTYGLGDRKDQEGYTM LQDQEGD TDAGLKESPLQTPA EDGSEELGSETSDAKSTPTAEDVTAPLVDERAPGEQAAAQPHMEIPEGTTAAE AGIGDTPSLEDEAAGHVTQARMVSKSKDGTGSDDKKAKGADGKTKIATPRGA APPGQKQGQANATRIPAKTPPAPKTPPSSATKQVQRKPPPAEPTSERGEPPKS GDRSGYSSPGSPGTPGSRSRTPSLPTPPAREPKKVAVVRTPPKSPSSAKSRL QTAPVPM PDLKNVSKIGSTENLKHQPGGGKVQIINKKLDLSNVQSKCGSKDN IKHVPGGGSVQIVYK PVDLSKVTSKCGSLGNIHHKPGGGQVEVKSEKLDKDR VQSKIGSLDNITHVPGGGNKKIETHKLT FRENAAKATDHGAEIVYKSPVVS GDT SPRHLSNVSSTGSIDMVDSPQLATLADEV SASLAKQGL
<b>Research Area</b>	Others
<b>Source</b>	E.coli
<b>Target Names</b>	MAPT
<b>Expression Region</b>	2-459aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	63.8kDa

**Protein Length**

Full Length of Mature Protein

**Image**

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

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