

## Tau Protein, Rhesus macaque, Recombinant (His)

## General Information

Synonyms:	Microtubule-associated protein tau;TAU;Paired helical filament-tau (PHF-tau);Neurofibrillary tangle protein;MAPT
Protein Construction:	2-459 aa
Species:	Rhesus
Expression Host:	HEK293 Cells
Accession:	P57786
Molecular Weight:	50.6 kDa (predicted)
AA Sequence:	AEPRQEFDMEDHAGTYGLGDRKDQEGYTMLQDQEGDTDAGLKESPLQTPAEDGSEELGSETSDAKSTPTA EDVTAPLVDERAPGEQAAAQPHMEIPEGTTAEEAGIGDTPSLEDEAAGHVVTQARMVSKSKDGTGSDDKKAK GADGKTKIATPRGAAPPGQKGQANATRIPAKTPPAPKTPPSSATKQVQRKPPPAEPTSERGEPPKSGDRSGY SSPGSPGTPGSRSRTPSLTPPPAREPKKVAVVRTPPKSPSSAKSRLQTAPVMPDLKNVSKIGSTENLKHQP GGGKVQIINKKLDLSNVQSKCGSKDNIKHVPGGGSVQIVYKPVLDLSKVTSKCGSLGNIHHKPGGGQVEVKSEK LDFKDRVQSKIGSLDNITHVPGGGNKKIETHKLTFRENAKAKTDHGAEIVYKSPVVSVDTSRHLNSVSTGSI DMVDSPQLATLADEVASLAKQGL

## QC Testing

Biological Activity:	Measured by its binding ability in a functional ELISA. Immobilized Macaca mulatta MAPT at 2 µg/mL can bind anti-MAPT recombinant antibody, the EC 50 is 2.464-3.979 ng/mL.
Purity:	> 95% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

**Protein Background**

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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481