

Tau Protein, Rat, Recombinant (E. coli, His)

General Information

Synonyms:	Tau;Mtapt;Neurofibrillary tangle protein;Microtubule-associated protein tau;Paired helical filament-tau (PHF-tau);Mapt
Protein Construction:	2-752 aa
Species:	Rat
Expression Host:	E. coli
Accession:	P19332
Molecular Weight:	82.4 kDa (predicted)
AA Sequence:	AEPRQEFDTMEDQAGDYTMLQDQEGDMDHGLKESPPQPPADDGSEEPGSETSDAKSTPTAEDVTAPLVEE RAPDKQATAQSHTIEPEGTTAEEAGIGDTPNMEDQAAGHVTVQEPQKVEIFSQSLLVEPGRREGQAPDSGISD WTHQQVPSMSGAPLPPQGLREATHQPLGTRPEDVERSHPASELLWQESPQKEAWGKDRLGSEEEVDIT MDESSQESPPSQASLAPGTATPQARSVSASGVSGETTSIPGFPAEGSIPLPADFFSKVSAETQASPPEGPGTGP SEEGHEAAPEFTFHVEIKASAPKEQDLEGATVVGAPAEQKARGPSVGKGTKEASLLEPTDKQPAAGLPGRPV SRVPQLKARVAGVSKDRTGNDEKKAKTSTPSCAKTPSNRPCLSPTRPTPGSSDPLIKPSSPAVCPEPATSPKYV SSVTPRNGSPGKQMKLKGADGKTGAKIATPRGAATPGQKGTSNATRIPAKTTPSPKTPPGSGEPPKSGERS GYSSPGSPGTPGSRSLPTPTREPKKVAVVRTPPKSPSASKSRLQTAPVPMPLKKNVRSKIGSTENLKH QPGGGKVQIINKKLDLSNVQSKCGSKDNIKHVPGGGSVHIVYKPVDLKVTSKCGSLGNIHHKPGGGQVEVK SEKLDKDRVQSKIGSLDNITHVPGGGNKKIETHKLTFRENAKAKTDHGAEIVYKSPVVSAGDTSRHLNSVST GSIDMVDSPQLATLADEVASLAKQGL

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & 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.

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