

Recombinant Rat MAPT Protein (2-752 aa), His-tagged

Cat. No. MAPT-647R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat MAPT Protein (2-752 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length of Mature Protein.
Species	Rat
Source	E.coli
ProteinLength	2-752 aa
Description	Promotes microtubule assbly 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 mbrane 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.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	82.4 kDa
AA Sequence	AEPRQEFDTMEDQAGDYTMLQDQEGDMDHGLKESPPQPPADDGSEEPGSETSDA KSTPTAEDVTAPLVEERAPDKQATAQSHTIPEGTTAEEAGIGDTPNMQAAGHVT QEPQKVEIFSQSLLEPGRREGQAPDSGISDWITHQQVPSMSGAPLPPQGLREATH

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QPLGTRPEDVERSHPASELLWQESPQKEAWGKDRLGSEEEVDEDITMDESSQESP
 PSQASLAPGTATPQARSVSASGVSGETTSIPGFPAEGSIPLPADFFSKVSAETQASP
 PEGPGTGPSEEGHEAAPEFTFHVEIKASAPKEQDLEGATVVGAPAEQKARGPSVG
 KGTKEASLLEPTDKQPAAGLPGRPVSRVPQLKARVAGVSKDRTGNDEKKAKTSTPS
 CAKTPSNRPCLSPTRPTPGSSDPLIKPSSPAVCPEPATSPKYVSSVTPRNGSPGTKQ
 MKLKGADGKTGAKIATPRGAATPGQKGTSNATRIPAKTTTPSPKTPPGSGEPPKSGE
 RSGYSSPGSPGTPGSRSRTPSLPTPTREPKKVAVVRTPPKSPSASKSRLQTAPVP
 MPDLKNVRISKIGSTENLKHQPGGGKVQIINKKLDLSNVQSKCGSKDNIKHVPGGGSV
 HIVYKPVDLKSVTSKCGSLGNIHHKPGGGQVEVKSEKLDFKDRVQSKIGSLDNITHV
 PGGGNKKIETHKLTFRENAKAKTDHGAEIVYKSPVVSGDTSPRHLSNVSSSTGSIDMV
 DSPQLATLADEVASSLAKQGL

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage 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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name [Mapt microtubule-associated protein tau \[Rattus norvegicus \]](#)

Official Symbol [MAPT](#)

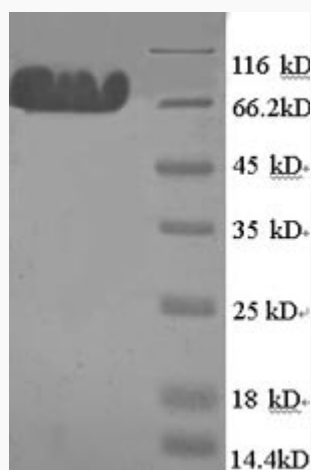
Synonyms MAPT; PHF-tau; pTau; Mtapt; RNPTAU; MGC156663;

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Gene ID	29477
mRNA Refseq	NM_017212
Protein Refseq	NP_058908
UniProt ID	P19332



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

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