

Microtubule-associated protein tau (Mapt) Recombinant Protein | Mapt recombinant protein

Recombinant Rat Microtubule-associated protein tau (Mapt)

CATALOG # AAA114011	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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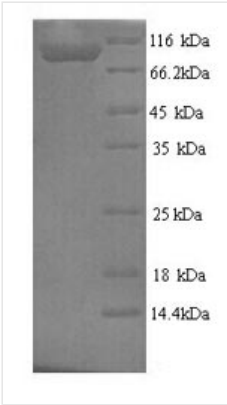
PRODUCT SYNONYMS

Microtubule-associated protein tau (Mapt); Recombinant Rat Microtubule-associated protein tau (Mapt); Neurofibrillary tangle protein; Paired helical filament-tau; PHF-tau; Mapt recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	2-752aa; Full Length of Mature Protein
Sequence	AEPRQEFDTM EDQAGDYTML QDQEGDMDHG LKESPPQPPA DDGSEEPGSE TSDAKSTPTA EDVTAPLVEE RAPDKQATAQ SHTEIPEGTT AEEAGIGDTP NMEDQAAGHV TQEPQKVEIF SQSLLVEPGR REGQAPDSGI SDWTHQQVPS MSGAPLPPQG LREATHQPLG TRPEDVERSH PASELLWQES PQKEAWGKDR LGSEEEVDDED ITMDESSQES PPSQASLAPG TATPQARSVS ASGVSGETTS IPGFPAEGSI PLPADFFSKV SAETQASPPE GPGTGPSEEG HEAAPEFTFH VEIKASAPKE QDLEGATVVG APAEEQKARG PSVGKGTKEA SLEPTDKQP AAGLPGRPVSV RVPQLKARVA GVKDRTGND EKKAKTSTPS CAKTPSNRPC LSPTRPTPGS SDPLIKPSSP AVCPEPATSP KYVSSVTPRN GSPGKQMKL KGADGKTGAK IATPRGAATP GQKGTSNATR IPAKTTSPSK TPPGSGEPPK SGERSGYSSP GSPGTPGSR S RTPSLTPPT REPKKVAVVR TPKSPSASK SRLQTAPVPM PDLKNVRSKI GSTENLKHQP GGGKVQIINK KLDLSNVQSK CGSKDNIKHV PGGGSVHIVY KPVDSLKVTS KCGSLGNIHH KPGGGQVEVK SEKLDFKDRV QSKIGSLDNI THVPGGGNKK IETHKLTFRE NAKAKTDHGA EIVYKSPVVS GDTSPRHLSN VSSTGSIDMV DSPQLATLAD EVSASLAKQG L
Production Note	Special Offer: The Yeast host-expressed protein is manufactured from a stock plasmid containing the protein gene. Yeast host-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The Yeast host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select Yeast host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Mapt recombinant protein	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.
References	Cloning of a big tau microtubule-associated protein characteristic of the peripheral nervous system.Goedert M., Spillantini M.G., Crowther R.A.Proc. Natl. Acad. Sci. U.S.A. 89:1983-1987(1992) Expression of high molecular weight tau in the central and peripheral nervous systems.Georgieff I.S., Liem R.K.H., Couchie D., Mavilia C., Nunez J., Shelanski M.L.J. Cell Sci. 105:729-737(1993) Complete sequence of 3'-untranslated region of tau from rat central nervous system. Implications for mRNA heterogeneity.Sadot E., Marx R., Barg J., Behar L., Ginzburg I.J. Mol. Biol. 241:325-331(1994) Developmentally regulated expression of specific tau sequences.Kosik K.S., Orecchio L.D., Bakalis S., Neve R.L.Neuron 2:1389-1397(1989) Expression of multiple tau isoforms and microtubule bundle formation in fibroblasts transfected with a single tau cDNA.Kanai Y., Takemura R., Oshima T., Mori H., Ihara Y., Yanagisawa M., Masaki T., Hirokawa N.J. Cell Biol. 109:1173-1184(1989) Diversity of high-molecular-weight tau proteins in different regions of the nervous system.Mavilia C., Couchie D., Nunez J.J. Neurochem. 63:2300-2306(1994) In vivo phosphorylation sites in fetal and adult rat tau.Watanabe A., Hasegawa M., Suzuki M., Takio K., Morishima-Kawashima M., Titani K., Arai T., Kosik K.S., Ihara Y.J. Biol. Chem. 268:25712-25717(1993) Molecular diversity at the carboxyl terminus of human and rat tau.Sawa A., Oyama F., Matsushita M., Ihara Y.Brain Res. Mol. Brain Res. 27:111-117(1994) A role for FKBP52 in Tau protein function.Chambraud B., Sardin E., Giustiniani J., Dounane O., Schumacher M., Goedert M., Baulieu E.E.Proc. Natl. Acad. Sci. U.S.A. 107:2658-2663(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	13432197
NCBI GeneID	29477
UniProt Accession #	P19332; Q63567; Q63677; Q9QW06
Molecular Weight	80.4 kDa
NCBI Official Full Name	Microtubule-associated protein tau
NCBI Official Synonym Full Names	microtubule-associated protein tau
NCBI Official Symbol	Mapt
NCBI Official Synonym Symbols	Tau; pTau; Mtapt; RNPTAU
NCBI Protein Information	microtubule-associated protein tau
UniProt Protein Name	Microtubule-associated protein tau
UniProt Gene Name	Mapt

UniProt Synonym Gene Names	Mtapt; Tau; PHF-tau
UniProt Entry Name	TAU_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/mapt-recombinant-protein-e-coli/114011>