

Tau-F/MAPT Protein, Human

Cat. No.:	HY-P70589
Synonyms:	DDPAC; FLJ31424; FTDP-17; G protein beta1/gamma2 subunit-interacting factor 1; MAPT; MGC138549; microtubule-associated protein tau; MSTD; MSTDMAPT; MTBT1; MTBT1Neurofibrillary tangle protein; MTBT2; Neurofibrillary tangle protein; PHF-tau; PPND; Tau; TAUPaired helical filament-tau
Species:	Human
Source:	E. coli
Accession:	P10636-8 (M1-L441)
Gene ID:	4137
Molecular Weight:	Approximately 60.0 kDa

PROPERTIES

AA Sequence	<pre> MAEPRQEFEV MEDHAGTYGL GDRKDQGGYT MHQDQEGDTD AGLKESPLQT PTE DGSEEPG SETSDAKSTP TAEDVTAPLV DEGAPGKQAA AQPHEIPEG TTAEEAGIGD TPSLEDEAAG HVTQARMVSK SKDGTGSDDK KAKGADGKTK IATPRGAAPP GQKQGQANATR IPAKTPPAPK TPPSSGEPK SGDRSGYSSP GSPGTPGSR R T P S L P T P P T R E P K K V A V V R T P P K S P S S A K SRLQTAPVPM PDLKNVKS KI GSTENLKHQP GGGKVQ I I N K KLDLSNVQSK CGSKDNIKHV PGGGSVQIVY KPVDLSKVTS KCGSLGNIHH KPGGGQVEVK SEKLDFKDRV QSKIGSLDNI THVPGGGNKK IETHKLTFRE NAKAKTDHGA EIVYKSPVVS GDTSPRHL SN VSSTGSIDMV DSPQLATLAD EVSASLAKQG L </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 1 mM EDTA, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Microtubule-associated protein tau is a microtubule-associated protein that is found in large quantities in neurons of the central nervous system (CNS). MAPT promotes microtubule assembly and stability and may be involved in the establishment and maintenance of neuronal polarity. MAPT can bind axon microtubules at the C end and neurotic membrane components at the N end, acting as a connexion between the two. Defects in MAPT can lead to neurological diseases such as Alzheimer's and Parkinson's. Overexpression of MAPT is associated with a poor prognosis of prostate cancer. Tau protein S262/S356 can be phosphorylated by AMPK-related kinase^{[1][2][3][4]}.

Caution: Product has not been fully validated for medical applications. For research use only.

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