

Recombinant Human Microtubule-Associated Protein Tau, His-tagged

Cat. No. MAPT-5074H **Lot. No.** (See product label)

SPECIFICATION

| | |
|-------------------------|---|
| Product Overview | Recombinant human Tau protein, fused to His-tag at N-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography. |
| Species | Human |
| Source | Human |
| Description | Tau, also known as microtubule-associated protein tau (MAPT), is a protein that stabilizes microtubules. It is abundant in neurons in the central nervous system and is less common elsewhere. When this protein is defective, and no longer stabilizes microtubules properly, it can result in dementias, such as Alzheimer's disease. |
| Concentration | 1 mg/ml |
| Form | Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 10% glycerol and 0.1M NaCl. |
| Purity | > 90% by SDS - PAGE |
| Sequence | 1-383 amino acids: MGSSHHHHHH SSGLVPRGSH MAEPRQFEV MEDHAGTYGL GDRKDQGGYT MHQDQEGDTD AGLKAE EAGI GDTPSLEDEA AGHVTQARMV SKSKDGTGSD DKKAKGADGK TKIATPRGAA PPGQKGQANA TRIPAKTPPA PKTPPSSGEP PKSGDRSGYS SPGSPGTPGS RSRTPSLPTP PTREP KKVAV VRTPPKSPSS AKSRLQTAPV PMPD |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|-----------------------|--|
| Molecular Mass | 42.1 kDa (403aa) confirmed by MALDI-TOF (molecular size on SDS-PAGE will appear higher) |
| Applications | SDS-PAGE |
| Storage | Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles. |

GENE INFORMATION

| | |
|------------------------|--|
| Gene Name | MAPT microtubule-associated protein tau [Homo sapiens] |
| Official Symbol | MAPT |
| Synonyms | MAPT; microtubule-associated protein tau; TAU; MSTD; PPND; DDPAC; MAPTL; MTBT1; MTBT2; FTDP-17; FLJ31424; Microtubule-associated protein tau; Neurofibrillary tangle protein; Paired helical filament-tau; MGC138549; microtubule-associated protein tau, isoform 4; G protein beta1/gamma2 subunit-interacting factor 1 |
| Gene ID | 4137 |
| mRNA Refseq | NM_001123066 |
| Protein Refseq | NP_001116538 |
| MIM | 157140 |
| UniProt ID | P10636 |
| Chromosome | 17q21.1 |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



Location

Pathway

Alzheimer"s disease; MAPK signaling pathway; Apoptosis

Function

axon; cell projection; cytoplasm; cytoskeleton; growth cone; microtubule; microtubule associated complex; plasma membrane; tubulin complex

Rendering of

MAPTfrom PDB 1I8H

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA