

Recombinant Human MAPT, His-tagged

Cat. No. MAPT-2874H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Tau protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
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.
Sequence	MGSSHHHHHH SSGLVPRGSH MAEPRQEFEV MEDHAGTYGL GDRKDQGGYT MHQDQEGDTD AGLKAE EAGI GDTPSLEDEA AGHVTQARMV SKSKDGTGSD DKKAKGADGK TKIATPRGAA PPGQKGQANA TRIPAKTPPA PKTPPSSGEP PKSGDRSGYS SPGSPGTPGS RSRTPSLPTP TREPKKVAV VRTPPKSPSS AKSRLQTAPV PMPDLKNVKS KIGSTENLKH QPGGGKVQII NKKLDLSNVQ SKCGSKDNIK HVPGGG SVQI VYKPVDSLKV TSKCGSLGNI HHKPGGGQVE VKSEKLD FKD RVQSKIGSLD NITHVPGGGN KKIETHK LTF RENAKAKTDH GAEIVYKSPV VSGDTSPRHL SNVSSTGSID MVDSPQLATL ADEV SASLAK QGL.
Purity	> 90% by SDS – PAGE.
MW	42.1 kDa (403aa) confirmed by MALDI-TOF.

 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

Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT, 50mM NaCl, 0.1mM PMSF.
Concentration	1mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	MAPT microtubule-associated protein tau [Homo sapiens]
Synonyms	MAPT; microtubule-associated protein tau ; DDPAC, FLJ31424, FTDP-17, MAPTL, MGC138549, MSTD, MTBT1, MTBT2, PPND, TAU; G protein beta1/gamma2 subunit-interacting factor 1; PHF-tau; microtubule-associated protein tau, isoform 4; neurofibrillary tangle protein; paired helical filament-tau
Gene ID	4137
mRNA Refseq	NM_001123066
Protein Refseq	NP_001116538
MIM	157140
UniProt ID	P10636
Chromosome Location	17q21
Pathway	Alzheimer"s disease; MAPK signaling pathway

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Function

SH3 domain binding; apolipoprotein E binding; identical protein binding; lipoprotein particle binding; structural constituent of cytoskeleton