

AR09583PU-L

Human MAPT / TAU (1-352, His-tag) - Purified

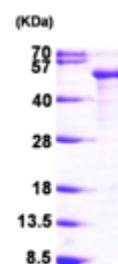
Alternate names:	MAPTL, MTBT1, Microtubule-associated protein tau, Neurofibrillary tangle protein, PHF-tau, Paired helical filament-tau
Quantity:	0.25 mg
Concentration:	0.5 mg/ml (determined by Bradford assay)
Background:	MAPT, also known as TAU, is a neuronal microtubule associated protein found predominantly on axons. The function of this protein is to promote tubulin polymerisation and stabilise microtubules, but it also serves to link certain signalling pathways to the cytoskeleton. MAPT, in its hyperphosphorylated form, is the major component of paired helical filaments (PHF) and neurofibrillary lesions in Alzheimer's disease (AD) brain.
Uniprot ID:	P10636
NCBI:	NP_001116538
GeneID:	4137
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >85% by SDS - PAGE Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.2 M NaCl, 1 mM DTT, 10% glycerol
Description:	Recombinant human MAPT protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. AA Sequence: MGSSHHHHH SSGLVPRGSH MAEPRQEFEV MEDHAGTYGL GDRKDQGGYT MHQDQEGDTD AGLKAEAGI GDTPSLEDEA AGHVTQARMV SKSKDGTGSD DKKAKGADGK TKIATPRGAA PPGQKGQANA TRIPAKTPPA PKTPPSSGEP PKSGDRSGYS SPGSPGTPGS RSRTPSLPTP PTREPKKVAV VRTPPKSPSS AKSRLQTAPV PMPDLKNVKS KIGSTENLKH QPGGGKVQIV YKPVDSLKVT SKCGSLGNIH HKPGGGQVEV KSEKLDFKDR VQSKIGSLDN ITHVPPGGGNK KIETHKLTFR ENAKAKTDHG AEIVYKSPVV SGGTSPRHLS NVSSTGSIDM VDSPQLATLA DEVSASLAKQ GL Molecular weight: 38.9 kDa (372aa) confirmed by MALDI-TOF (Real molecular weight on SDS-PAGE will be shift up).
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Jack CR Jr., et al. (2010) Lancet Neurol. 9(1):119-28. Buescher JL., et al. (2010) J Biol Chem. 285(11):7957-63.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human Tau, 1-352 aa, His-tagged



15% SDS-PAGE (3ug)