

TAU, 1-412aa, Human, His tag, E.coli

Cat.NO.: TP04151

3th Edition

Synonyms:Microtubule-associated protein tau isoform 5, MAPT, MAPTL, MTBT1, TAU, PHF-tau

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 property, it can result in dementias, such as Alzheimer's disease. Recombinant human Tau protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol

Molecular Weight:45.1 kDa (432aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Sequences:

MGSSHHHHHSSGLVPRGSHMAEPRQEFVEMEDHAGTYGLGDRKDQGGYTMHQDQEGD TDAGLKESPLQTPT
EDGSEEPGSETSDAKSTPTAEAEAEAGIGDTPSLEDEAAGHV TQARMVSKSKDGTGSDDKKAKGADGKTKIATPRG
AAPPQKQGQANATRIPAKTPPAPKTPPSSGEPKSGDRSGYSSPGSPGTPGSRSRTPSLPTPPTREP KKVAVVRT
PPKSPSSAKSRLQTAPVPM PDLKNVKSKIGSTENLKHQPGGGKVQIINKKLDLSNVQSKCGSKDN IKHVPGGG SVQI
VYKPV DLSKVTSKCGSLGNIHHKPGGGQVEVKSEKLD FKDRVQSKIGSLDNITHVPGGGNKKIETHK LTFRENAKAK
TDHGAEIVYKSPVVS GDTSPRHLSNVSS TGSIDMV DSPQLATLADEV SASLAKQGL

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by BCA assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.