

?, 1-381aa, Human, His tag, E.coli

Cat.NO.: TP01002

3th Edition

Synonyms: Microtubule-associated protein tau, isoform CRA_f, MAPT, DDPAC, FTDP-17, MAPTL, MSTD, MTBT1, MTBT2, PPND

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. Recombinant human Tau protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

Form: Liquid. In 20 mM Tris-HCl Buffer (pH 7.5) containing 1 mM DTT, 20% Glycerol

Molecular Weight: 41.8kDa(401aa) confirmed by MALDI-TOF (molecular weight on SDS-PAGE will appear higher)

Sequences:

MGSSHHHHHHSSGLVPRGSHMAEPRQEFVEMEDHAGTYGLGDRKDQGGYTMHQDQEGDTDAGLKESPLQTPT
EDGSEEPGSETSDAKSTPTAEAEAGIGDTPSLEDEAAGHVTQARMVSKSKDGTGSDDKKAKGADGKTKIATPRG
AAPPQGKGQANATRIAPKTPPAPKTPSSGEPKSGDRSGYSSPGSPGTPGSRSRTPSLPTPPTREPKKVAVVRT
PPKSPSSAKSRLQTAPVPMPLKKNVSKIGSTENLKHQPGGGKVQIVYKVPDLSKVTSKCGSLGNIHHKPGGGQVE
VKSEKLDKDRVQSKIGSLDNITHVPGGGNKKIETHKLTFRENAKAKTDHGAEIVYKSPVVSGDTSRHLNSVSTG
SIDMVDSPQLATLADEVSAKQGL

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.