

MAPT

Recombinant Human Microtubule-Associated Protein Tau His

Catalog No.	CS431A CS431B CS431C	Quantity:	2 µg 10 µg 1 mg
Alternate Names:	TAU, DDPAC, FTDP-17, MAPTL, MSTD, MTBT1, MTBT2, PPND.		
Description:	<p>MAPT is a neuronal microtubule associated protein localized mostly on axons. MAPT promotes tubulin polymerisation and stabilizes microtubules, however it also serves to connect certain signalling pathways to the cytoskeleton. MAPT, in its hyperphosphorylated form, is the main part of paired helical filaments (PHF) and neurofibrillary lesions in Alzheimer's disease (AD) brain.</p> <p>MAPT Recombinant Human produced in <i>E. Coli</i> is a single, non-glycosylated polypeptide chain containing 372 amino acids (1-352 a.a.) and having a molecular mass of 38.9 kDa (Real molecular weight on SDS-PAGE will be shift up). The MAPT is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.</p>		
Physical Appearance:	Sterile filtered colorless solution.		
Gene ID:	4137		
Protein Accession No:	P10636		
Source:	<i>E. coli</i>		
Formulation:	The MAPT solution (0.5 mg/ml) contains 20 mM Tris-HCl pH-8 + 1 mM DTT + 0.2 M NaCl + 10% glycerol.		
Purity:	Greater than 85.0% as determined by SDS-PAGE.		
Amino Acid Sequence:	MGSSHHHHHH SSGLVPRGSH MAEPRQEFEV MEDHAGTYGL GDRKDQGGYT MHQDQEGDTD AGLKAEAEAGI GDTPSLEDEA AGHVTQARMV SKSKDGTGSD DKKAKGADGK TKIATPRGAA PPGQKGQANA TRIPAKTPPA PKTPPSSGEP PKSGDRSGYS SPGSPGTPGS RSRTPSLPTP PTREPKKVAV VRTPPKSPSS AKSRLQTAPV PMPDLKNVKS KIGSTENLKH QPGGGKVQIV YKPDLSKVT SKCGSLGNIH HKPGGGQVEV KSEKLDKDR VQSKIGSLDN ITHVPGGGNK KIETHKLTFR ENAKAKTDHG AEIVYKSPVV SGDTSPRHLS NVSSTGSIDM VDSPQLATLA DEVSASLAKQ GL.		
Storage & Stability:	<p>Store at 4°C if entire vial will be used within 2-4 weeks.</p> <p>Store, frozen at -20°C for longer periods of time.</p> <p>For long term storage it is recommended to add a carrier protein</p> <p>Avoid repeated freeze-thaw cycles. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed.</p>		

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