
Product Data Sheet

Product Name: MAPT Human 383a.a.

Cat. No.: GP23886

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Microtubule-associated protein tau; Neurofibrillary tangle protein; Paired helical filament-tau; PHF-tau; MAPT; MAPTL; MTBT1; TAU; MSTD; PPND; DDPAC; MTBT2; FTDP-17; FLJ31424; MGC138549.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAEPRQEFEV MEDHAGTYGL GDRKDQGGYT MHQDQEGDTD AGLKAEAGI GDTPSLEDEA AGHVTQARMV SKSKDGTGSD DKKAKGADGK TKIATPRGAA PPGQKGQANA TRIPAKTPPA PKTPPSSGEP PKSGDRSGYS SPGSPGTPGS RSRTPSLPTP PTREPKKVAV VRTPPKSPSS AKSRLQTAPV PMPDLKNVKS KIGSTENLKH QPGGGKVQII NKKLDLSNVQ SKCGSKDNIK HVPGGGSVQI VYKPVDLSKV TSKCGSLGNI HHKPGGGQVE VKSEKLDKFD RVQSKIGSLD NITHVPGGGN KKIETHKLT F RENAKAKTDH GAEIVYKSPV VSGDTSRHL SNVSSTGSID MVDSPQLATL ADEVSASLAK QGL.		
Formulation	The MAPT solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.1M NaCl.		

Introduction

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

MAPT Human Recombinant (Isoform 3) fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 403 amino acids (1-383 a.a.) and having a molecular mass of 42.1kDa (Molecular size on SDS-PAGE will appear higher). The MAPT is purified by proprietary chromatographic techniques.

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