
Product Data Sheet

Product Name: MAPT Human
 Cat. No.: GP23884
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	TAU; DDPAC; FTDP-17; MAPTL; MSTD; MTBT1; MTBT2; PPND.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAEPRQEFEV MEDHAGTYGL GDRKDQGGYT MHQDQEGDTD AGLKAE EAGI GDTPSLEDEA AGHVTQARMV SKSKDGTGSD DKKAKGADGK TKIATPRGAA PPGQKGQANA TRIPAKTPPA PKTPPSSGEP PKSGDRSGYS SPGSPGTPGS RSRTPSLPTP PTREPKKVAV VRTPPKSPSS AKSRLQTAPV PMPDLKNVKS KIGSTENLKH QPGGGKVQIV YKPVDLSKVT SKCGSLGNIH HKPGGGQVEV KSEKLDKDR VQSKIGSLDN ITHVPGGGNK KIETHKLTFR ENAKAKTDHG AEIVYKSPVV SGGTSPRHLS NVSSTGSIDM VDSPQLATLA DEVSASLAKQ GL.		
Formulation	The MAPT solution (0.5mg/ml) contains 20mM Tris-HCl pH-8, 1mM DTT, 0.2M NaCl & 10% glycerol.		

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). Avoid multiple freeze-thaw cycles.

Background

MAPT Recombinant Human (Isoform-4) produced in E.Coli is a single, non-glycosylated

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

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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.

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