

Product datasheet for PH313312

Tau (MAPT) (NM_005910) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MAPT MS Standard C13 and N15-labeled recombinant protein (NP_005901)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC213312
Predicted MW:	45.7 kDa
Protein Sequence:	>RC213312 representing NM_005910 Red=Cloning site Green=Tags(s)

MAEPRQEFVEMEDHAGTYGLGDRKDQGGYTMHQDQEGDTDAGLKESPLQTPTEDGSEEPGSETSDAKSTP
TAEDVTAPLVDEGAPGKQAAAQPHTEIPEGTTAEEAGIGDTPSLEDEAAGHVTQARMVSKSKDGTGSDDK
KAKGADGKTKIATPRGAAPPQKQANATRIPAKTPPAPKTPPSSGEPKSGDRSGYSSPGSPGTPGSR
RTPSLPTPTREPKKVAVVRTPPKSPSSAKSRLQTAPVMPDLKNVSKIGSTENLKHQPGGKQVQIINK
KLDL SNVQSKCGSKDNIKHVPGGGSVQIVYKPVDL SKVTSKCGSLGNIHHPGGQVEVSEKLDKDFKDRV
QSKIGSLDNIHVPGGGNKKIETHKLTFRENAKAKTDHGAEIVYKSPVSGDTSRHL SNVSSTGSIDMV
DSPQLATLADEVASLAKQGL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_005901</u>
RefSeq Size:	5731
RefSeq ORF:	1323
Synonyms:	DDPAC; FTDP-17; MAPTL; MSTD; MTBT1; MTBT2; PPND; PPP1R103; TAU; tau-40



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Locus ID: 4137

UniProt ID: [P10636](#), [A0A024RA17](#)

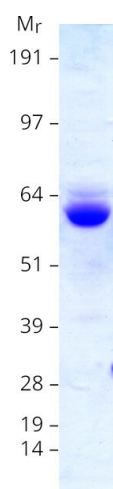
Cytogenetics: 17q21.31

Summary: This gene encodes the microtubule-associated protein tau (MAPT) whose transcript undergoes complex, regulated alternative splicing, giving rise to several mRNA species. MAPT transcripts are differentially expressed in the nervous system, depending on stage of neuronal maturation and neuron type. MAPT gene mutations have been associated with several neurodegenerative disorders such as Alzheimer's disease, Pick's disease, frontotemporal dementia, cortico-basal degeneration and progressive supranuclear palsy. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Alzheimer's disease, MAPK signaling pathway

Product images:



Coomassie blue staining of purified MAPT protein (Cat# [TP313312]). The protein was produced from HEK293T cells transfected with MAPT cDNA clone (Cat# [RC213312]) using MegaTran 2.0 (Cat# [TT210002]).