

Datasheet for ABIN7318057 **MAPT Protein (His tag)**



[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	MAPT
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAPT protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human MAPT/Tau Protein (His Tag)
Sequence:	Ala2-Leu352
Characteristics:	A DNA sequence encoding the mature form of human MAPT (NP_058525.1) (Ala2-Leu352) was expressed with a polyhistidine tag at the N-terminus.
Purity:	> 85 % as determined by reducing SDS-PAGE.

Target Details

Target:	MAPT
Alternative Name:	MAPT/Tau (MAPT Products)
Background:	Background: MAPT (microtubule-associated protein tau) can produce tau proteins. Tau proteins are proteins that stabilize microtubules. They are abundant in neurons of the central nervous system and are less common elsewhere, but are also expressed at very low levels in CNS astrocytes and oligodendrocytes. When tau proteins are defective, and no longer stabilize

Target Details

microtubules properly, they can result in dementias such as Alzheimer's disease. Tau protein is a highly soluble microtubule-associated protein (MAP). In humans, these proteins are mostly found in neurons compared to non-neuronal cells. One of tau's main functions is to modulate the stability of axonal microtubules. Other nervous system MAPs may perform similar functions, as suggested by tau knockout mice, who did not show abnormalities in brain development - possibly because of compensation in tau deficiency by other MAPs.

Synonym: DDPAC,FTDP-17,MAPT,MAPTL,MSTD,MTBT1,MTBT2,PPND,PPP1R103,TAU

Molecular Weight: 38.7 kDa

NCBI Accession: [NP_058525](#)

Pathways: [MAPK Signaling](#), [Microtubule Dynamics](#), [M Phase](#), [Regulation of Cell Size](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.