Recombinant Human MAPT/Tau Protein (His Tag)

Catalog Number: PKSH031907



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms DDPAC;FTDP-17;MAPT;MAPTL;MSTD;MTBT1;MTBT2;PPND;PPP1R103;TA

U

Species Human
Expression Host E.coli

SequenceAla2-Leu352AccessionNP_058525.1Calculated Molecular Weight38.7 kDaObserved molecular weight40-50 kDaTagN-His

Properties

Purity > 85 % as determined by reducing SDS-PAGE.

Endotoxin Please contact us for more information.

Storage 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.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4

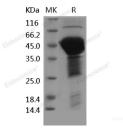
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 85 % as determined by reducing SDS-PAGE.

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 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 -

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possibly because of compensation in tau deficiency by other MAPs.

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