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Recombinant Human Microtubule-associated protein tau/MAPT (P301S,S320F) Protein

Catalog No.: RP00801 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	4137	P10636-8

Tags
NO-tag

Synonyms
Microtubule-associated protein tau□MAPT□MAPTL; MTBT1; TAU

Product Information

Source	Purification
E. coli	≥ 90% as determined by reducing SDS-PAGE.

Calculated MW	Observed MW
45.9 kDa	60-75 kDa

Endotoxin
< 0.01 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22μm filtered solution in PBS (pH 7.4),1mM EDTA, 1mM DTT.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

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 - possibly because of compensation in tau deficiency by other MAPs.

Basic Information

Description
Recombinant Human Microtubule-associated protein tau/MAPT (P301S,S320F) Protein is produced by E. coli Cells system. The target protein is expressed with sequence (Met1-Leu441) of Human Microtubule-associated protein tau/MAPT (Accession #P10636-3)fused with No tag .

Bio-Activity

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

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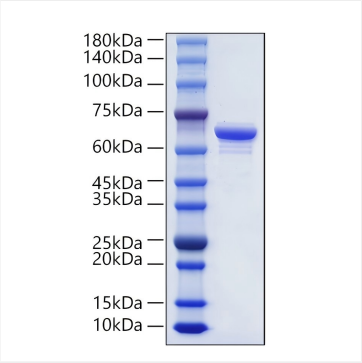
Validation Data



Recombinant Human Microtubule-associated protein tau/MAPT (P301S,S320F) Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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