

**Synonym**

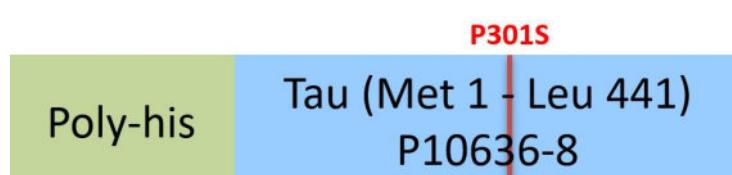
DDPAC,FTDP-17,MAPT,MSTD,MTBT1,Tau,PHF-tau,TAU

Source

Human Tau-441 (P301S), His Tag(TAU-H5145) is expressed from E. coli cells.

It contains AA Met 1 - Leu 441 (Accession # [P10636-8](#) (P301S)).

Predicted N-terminus: Met

Molecular Characterization

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 47.7 kDa. The protein migrates as 66 kDa under reducing (R) condition (SDS-PAGE).

EndotoxinLess than 0.01 EU per μ g by the LAL method / rFC method.**Purity**

>90% as determined by SDS-PAGE.

FormulationLyophilized from 0.22 μ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

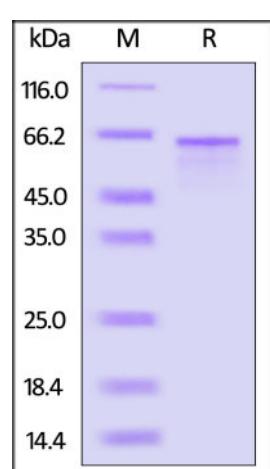
*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.***Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

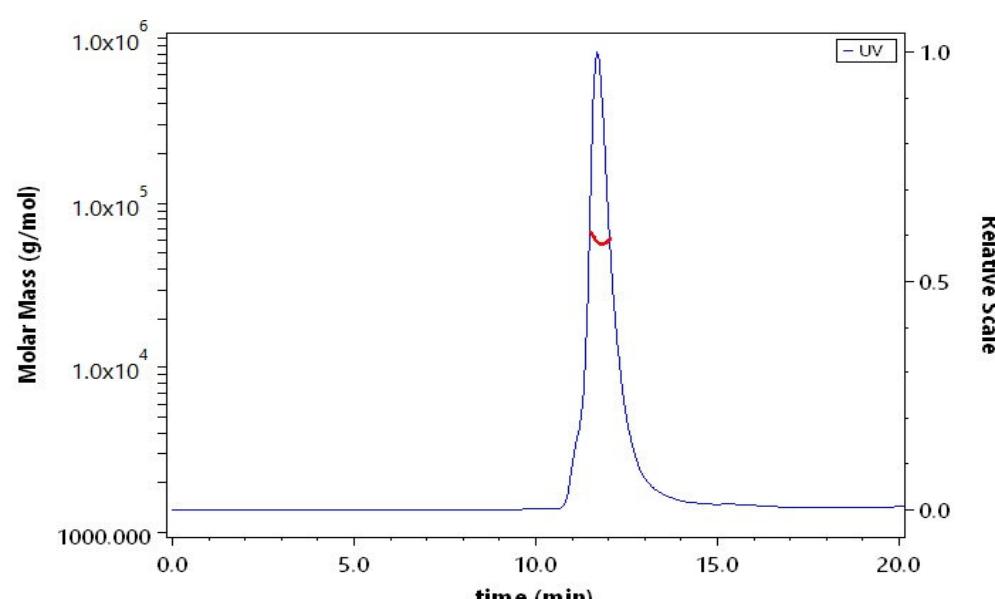
Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

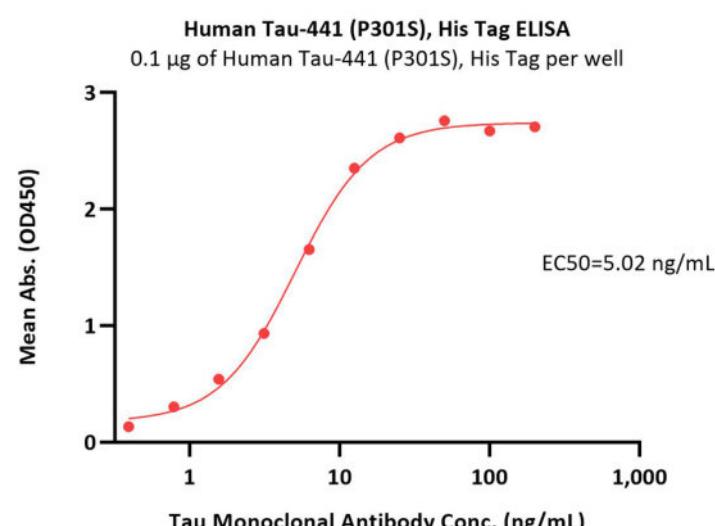
SDS-PAGE

Human Tau-441 (P301S), His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

SEC-MALS

The purity of Human Tau-441 (P301S), His Tag (Cat. No. TAU-H5145) is more than 85% and the molecular weight of this protein is around 53-65 kDa verified by SEC-MALS.

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Immobilized Human Tau-441 (P301S), His Tag (Cat. No. TAU-H5145) at 1 µg/mL (100 µL/well) can bind Tau Monoclonal Antibody with a linear range of 0.4-13 ng/mL (QC tested).

Background

Tau is a microtubule-associated protein, which encodes by the MAPT gene that located on chromosome 17q21. Tau Promotes microtubule assembly and stability, and might be involved in the establishment and maintenance of neuronal polarity. Hyperphosphorylation of the tau protein (tau inclusions, pTau) can result in the self-assembly of tangles of paired helical filaments and straight filaments, which are involved in the pathogenesis of Alzheimer's disease, frontotemporal dementia, and other tauopathies.

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