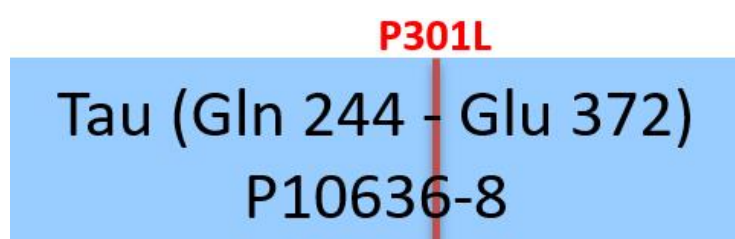


Synonym

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

Source

Human Tau-441 (K18, P301L) Protein, Tag Free(TAU-H5118) is expressed from E. coli cells. It contains AA Gln 244 - Glu 372 (Accession # [P10636-8](#) (P301L)). Predicted N-terminus: Met

Molecular Characterization

This protein carries no "tag"

The protein has a calculated MW of 13.8 kDa. The protein migrates as 14-15 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 0.1 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 µm filtered solution in 20 mM Tris, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Shipping

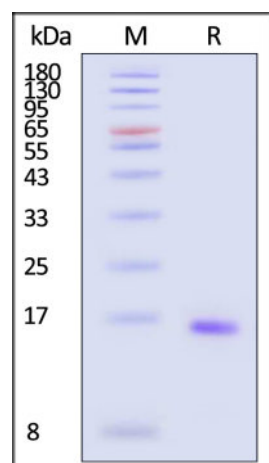
This product is supplied and shipped with dry ice, please inquire the shipping cost.

Storage

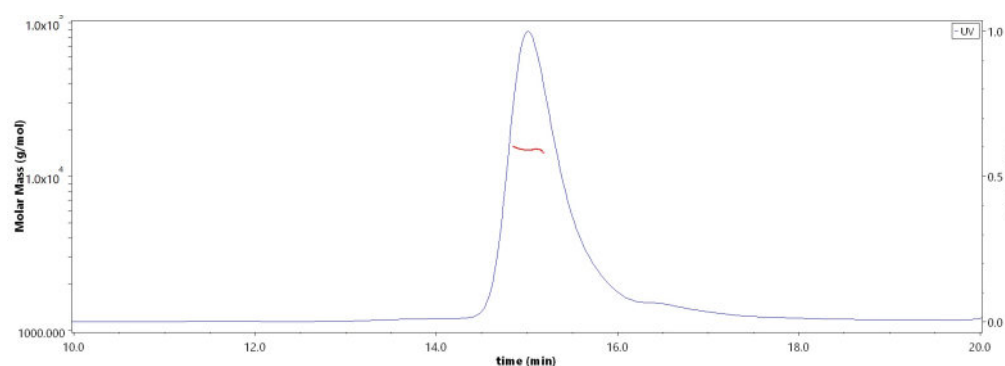
Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

SDS-PAGE

Human Tau-441 (K18, P301L) Protein, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS

The purity of Human Tau-441 (K18, P301L) Protein, Tag Free (Cat. No. TAU-H5118) is more than 85% and the molecular weight of this protein is around 12-18 kDa verified by SEC-MALS.

[Report](#)

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.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.