

Human Tau-441/2N4R(P301L) Protein

Cat. No. TAU-HE042

Description

Source	Recombinant Human Tau-441/2N4R (P301L) Protein is expressed from E.coli without tag.
	It contains Met1-Leu441(P301L).
Accession	P10636-8
Molecular Weight	The protein has a predicted MW of 45.86 kDa. The protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

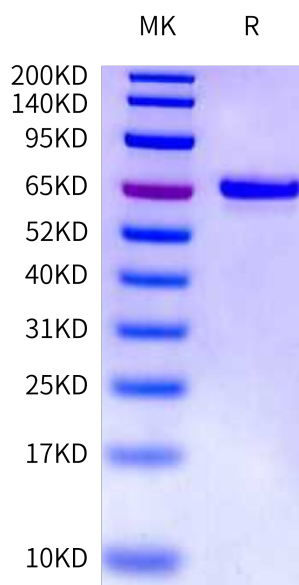
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Mutations in MAPT, the tau gene, give rise to frontotemporal dementia and parkinsonism linked to chromosome 17 (FTDP-17), with abundant filamentous tau inclusions in brain cells. Mutations that encode missense variants of residue P301 are the most common and result in the formation of filamentous inclusions made of mutant four-repeat tau. In vitro experiments have shown that, of the MAPT mutations tested, P301L and P301S tau had the least potential to promote microtubule assembly and the greatest ability to form heparin-induced filaments.

Assay Data

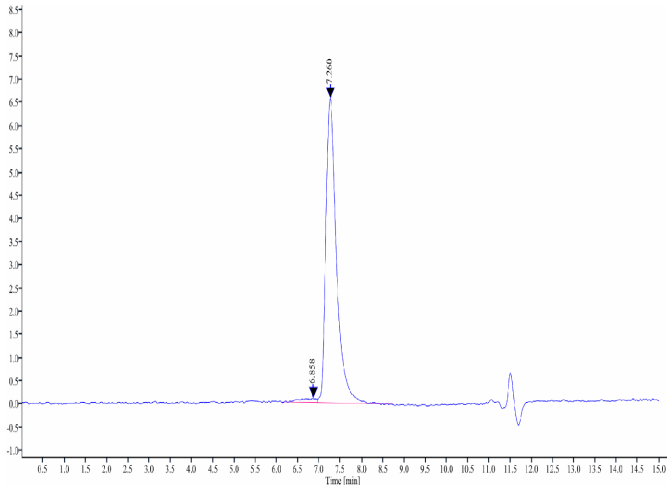
Bis-Tris PAGE



Human Tau-441(P301L) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

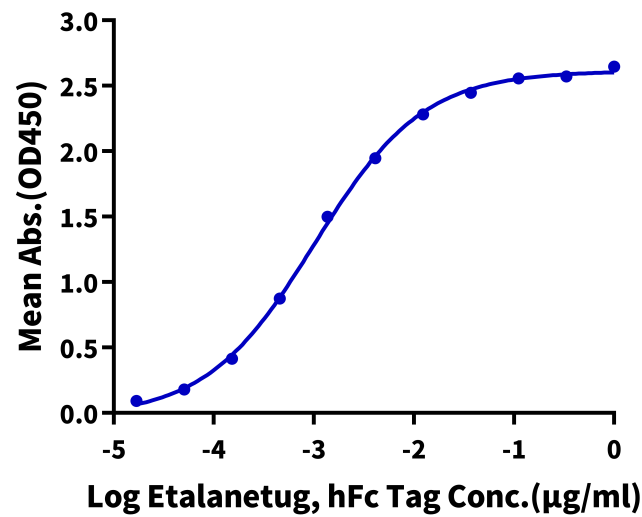
Assay Data



The purity of Tau-441(P301L) is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human Tau-441(P301L), No Tag ELISA
0.05µg Human Tau-441(P301L), No Tag Per Well



Immobilized Human Tau-441(P301L), No Tag at 0.5µg/ml(100µl/well) on the plate. Dose response curve for Etalanetug, hFc Tag with the EC50 of 1.0ng/ml determined by ELISA.