

Human Tau-441/2N4R(P301S) Protein



Cat. No. TAU-HE044

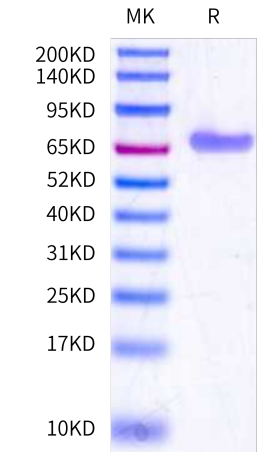
Description	
Source	Recombinant Human Tau-441/2N4R(P301S) Protein is expressed from E.coli without tag. It contains Met1-Leu441(P301S).
Accession	P10636-8
Molecular Weight	The protein has a predicted MW of 45.83 kDa. The protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 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, 1 mM DTT (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	
Tau pathology is associated with cognitive decline in Alzheimer's disease, and missense tau mutations cause frontotemporal dementia. Hyperphosphorylation and misfolding of tau are considered critical steps leading to tauopathies. The P301S mutation linked to frontotemporal dementia causes tau aggregation and rapidly progressing motor deficits.	

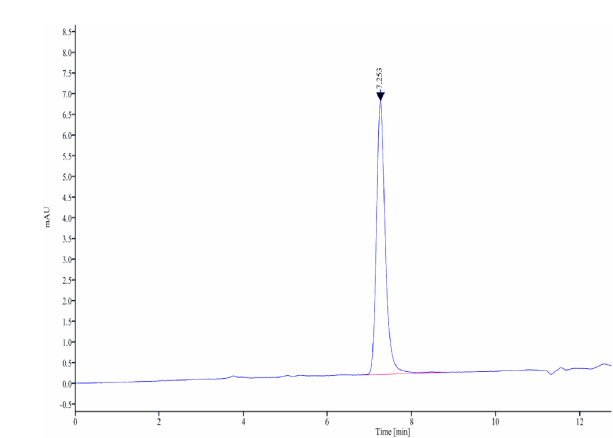
Assay Data

Bis-Tris PAGE



Human Tau-441(P301S) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



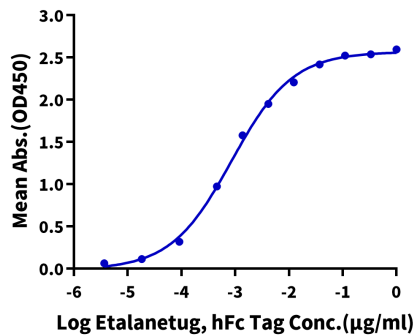
The purity of Human Tau-441(P301S) is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human Tau-441 (P301S), No Tag ELISA

0.05µg Human Tau-441 (P301S), No Tag Per Well



Immobilized Human Tau-441(P301S), No Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Etalantug, hFc Tag with the EC50 of 0.9 ng/ml determined by ELISA.