

Human Tau K18(P301L) Protein

Cat. No. TAU-HE043



Description

Source	Recombinant Human Tau K18(P301L) Protein is expressed from E.coli without tag.
	It contains Gln244-Glu372(P301L).
Accession	P10636-8
Molecular Weight	The protein has a predicted MW of 13.69 kDa same as Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

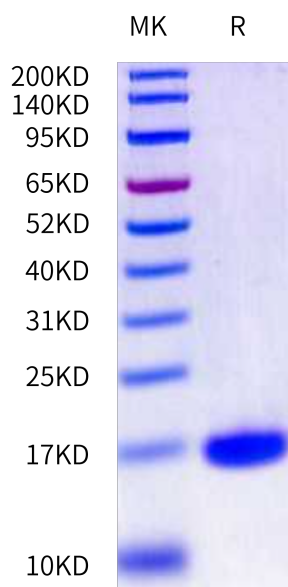
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

K18, a 126-residue peptide containing the four repeats of the tubulin-binding domain of tau is driven by phosphorylation to form liquid-liquid phase-separated (LLPS) droplets, a state from which full-length tau further condenses to form amyloid fibrils. K18, which like tau is strongly cationic, also can be seeded to form amyloid-like filaments by preformed tau amyloid and by complementary anionic polymers and compounds and accordingly has been used as a model for analyses of factors controlling amyloid assembly.

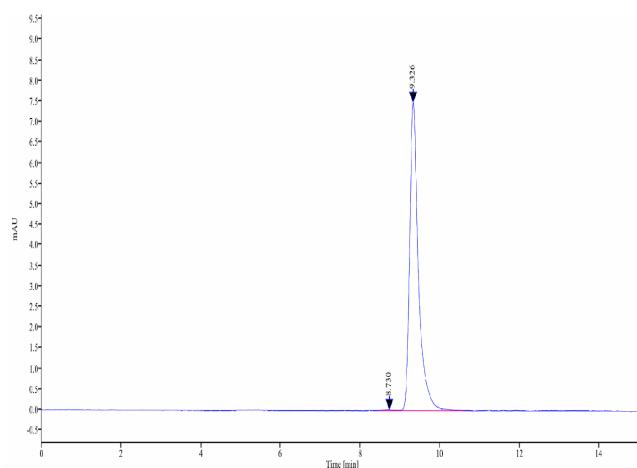
Assay Data

Bis-Tris PAGE



Human Tau K18(P301L) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



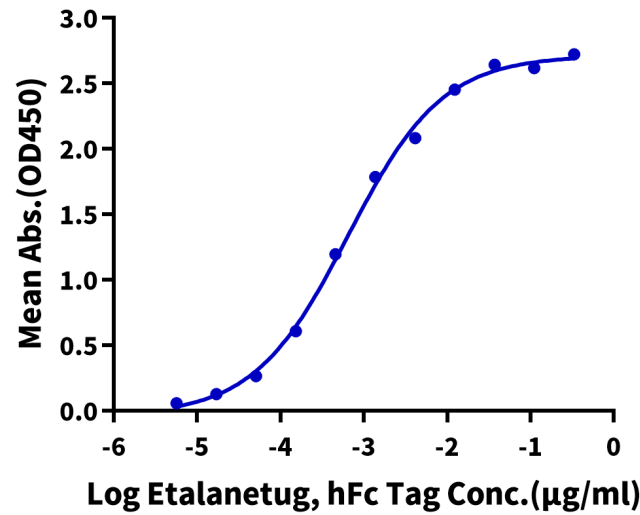
The purity of Human Tau K18(P301L) is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human Tau K18(P301L), No Tag ELISA

0.05µg Human Tau K18(P301L), No Tag Per Well



Immobilized Human Tau K18(P301L), No Tag at 0.5µg/ml(100µl/well) on the plate. Dose response curve for Etalanetug, hFc Tag with the EC50 of 0.6ng/ml determined by ELISA.