Human Tau K18 Protein

Cat. No. TAU-HEK18

Description

Source	Recombinant Human Tau K18 Protein is expressed from E.coli without tag.
	It contains Gln244-Glu372.
Accession	P10636-8
Molecular Weight	The protein has a predicted MW of 13.68 kDa. The protein migrates to 17-20 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

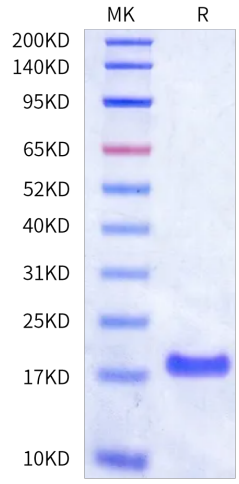
Formulation	Supplied as 0.22 μm filtered solution in 25mM HEPES, 1M NaCl, 10% Glycerol, 1mM TCEP (pH 7.2).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

As a major microtubule-associated protein, tau plays an important role in promoting microtubule assembly and stabilizing microtubules. In Alzheimer's disease (AD) and other tauopathies, the abnormally hyperphosphorylated tau proteins are aggregated into paired helical filaments and accumulated in the neurons with the form of neurofibrillary tangles. An imbalanced regulation in protein kinases and protein phosphatases is the direct cause of tau hyperphosphorylation.

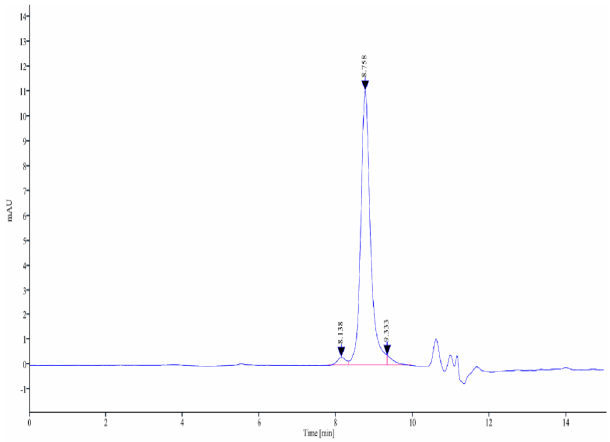
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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