

Product name TAU protein (His tag) **Catalog #:** L2B006

Protein description Recombinant full length mature Human TAU

Molecular weight 50KD

Expression host E.coli

Purity > 90 % by SDS-PAGE

Purification notes Sepharose derived purification.

Biological activity A identified biomarker of Alzheimer's disease

Form Liquid

Concentration& Lot.: 1mg/ml **Lot.:** L170601

Storage instructions Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Storage buffer 0.01M PBS, 0.15M NaCl, pH 7.4, 2.5% glycerol, 0.2%ykl

Preservative 0.2%ykl

Application ELISA ;WESTERN

Used in diagnosis and of Alzheimer's disease

Relevance Promotes microtubule assembly and stability, and might be involved in the establishment and maintenance of neuronal polarity. The C-terminus binds axonal microtubules while the N-terminus binds neural plasma membrane components, suggesting that tau functions as a linker protein between both. Axonal polarity is predetermined by tau localization (in the neuronal cell) in the domain of the cell body defined by the centrosome. The short isoforms allow plasticity of the cytoskeleton whereas the longer isoforms may preferentially play a role in its stabilization. In Alzheimer's disease, the neuronal cytoskeleton in the brain is progressively disrupted and replaced by tangles of paired helical filaments (PHF) and straight filaments, mainly composed of hyperphosphorylated forms of TAU (PHF-TAU or AD P-TAU).