



Recombinant Human Tau Protein (DAGC062)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Species	Human
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.
Conjugate	Unconjugated
Molecular Weight	46 kDa
Format	Liquid
Size	100 µg
Buffer	PBS pH 7.4
Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, 70 °C as supplied. 3 months, 70 °C under sterile conditions after opening.
Ship	The product is shipped with dry ice or equivalent. Upon receipt, store it immediately at the temperature recommended below.

BACKGROUND

Introduction	Tau is a microtubule-associated protein expressed primarily in neurons. Carboxy-terminal domains of Tau associate with and stabilize microtubule structure, while other domains bind to the plasma membrane. Abnormal Tau phosphorylation may result in the self-assembly of tangles of paired helical and/or straight filaments, which are involved in the pathogenesis of Alzheimer's disease and other neurodegenerative diseases. Properly folded Tau is highly soluble, but when the protein becomes misfolded it forms insoluble aggregates that can
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damage cytoplasmic functions, interfere with axonal transport and ultimately lead to cell death. There are multiple forms of Tau--this 441 amino acid isoform is known as "2N4R," "Isoform Tau-F," "Tau-4" or "Tau 441" and is referenced in UniProt as P10636-8. This recombinant protein is untagged.

Keywords

MAPT; microtubule-associated protein tau; TAU; MSTD; PPND; DDPAC; MAPTL; MTBT1; MTBT2; FTDP-17; PHF-tau
