

Active Recombinant Full Length Human Tau-441 Protein

Cat. No. Tau-441-56HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Our recombinant human Tau-441 protein is expressed in E.coli. It is a Tag Free full-length human Tau protein (2N4R), which is composed of a total of 441 amino acids.
Species	Human
Source	E.coli
Description	Tau protein is one of the microtubule-associated proteins that has the highest content in the relevant cellular context. In the normal brain, the cellular function of Tau protein is to bind to tubulin, promoting its polymerization to form microtubules, and then bind to the formed microtubules to maintain the stability of microtubules, reducing the dissociation of tubulin molecules, and ultimately inducing the bundling of microtubules. In normal individuals, due to different mRNA splicing patterns of Tau protein, six isoforms can be expressed. Tau protein is a phosphorylated protein. In the normal mature brain, each Tau protein molecule contains 2 to 3 phosphate groups. However, in the brains of patients with Alzheimer's disease (senile dementia), the Tau protein is abnormally and excessively phosphorylated. Each Tau protein molecule can contain 5 to 9 phosphate groups and loses its normal biological functions.
Purity	≥ 90% by SDS-PAGE
Advantages	The Tag-Free protein has better specificity in use.
Applications	1. Study the influence of Tau protein on the neuropathological changes in Alzheimer's

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disease. 2. Study the effect of Tau protein on the mitochondrial transport speed in glial cells 3. The raw materials for the in vitro preparation of phosphorylated Tau protein. 4. The standard substance for the detection of Tau protein.

Note

1. Try to avoid freeze-thaw cycles of this product after receipt; 2. Please wear lab coat and disposable gloves when using; 3. This product should not be used directly for clinical diagnosis and treatment.

Stability

This product should be stored at -20 centigrade and can be stored for at least 12 months.

Storage

Store at -20 centigrade.

Storage Buffer

50mM Tris, 150mM NaCl, 0.25mM DTT, 25% Glycerol, pH=7.5

Concentration

≥ 1.0 mg/mL

Shipping

Dry ice

GENE INFORMATION

Gene Name

MAPT microtubule associated protein tau [Homo sapiens (human)]

Official Symbol

Tau-441

Synonyms

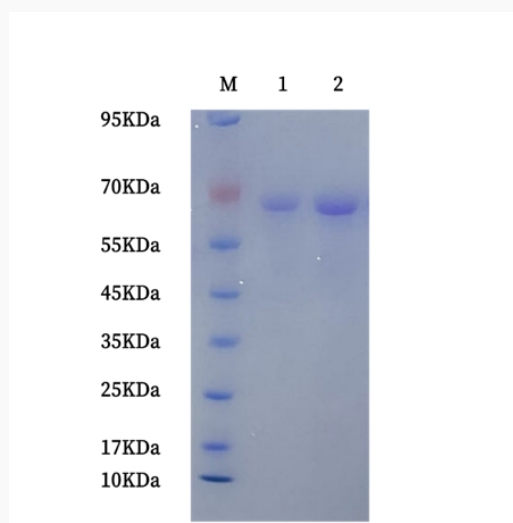
MAPT; microtubule associated protein tau; TAU; FTD1; MSTD; PPND; DDPAC; MAPTL; MTBT1; MTBT2; tau-40; FTDP-17; PPP1R103; Tau-PHF6; Tau-441; microtubule-associated protein tau; G protein beta1/gamma2 subunit-interacting factor 1; PHF-tau; Tau-derived paired helical filament hexapeptide; neurofibrillary tangle protein; paired helical filament-tau; protein phosphatase 1, regulatory subunit 103

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Gene ID	4137
mRNA Refseq	NM_016835
Protein Refseq	NP_058519
MIM	157140
UniProt ID	P10636

SDS-PAGE


M: Marker Lane 1-2: Recombinant Human Tau-441 Protein

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