

Tau-441 recombinant protein

Tau-441 (244-372) Protein

CATALOG # AAA74034	HOST E Coli	APPLICATIONS Western Blot
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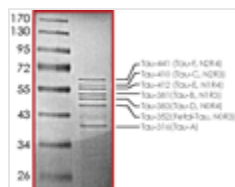
PRODUCT SYNONYMS

Tau-441; Tau-441 (244-372) Protein; Tau-F; (N2R4); Tau-4; MAPT; MSTD; PPND; DDPAC; MAPTL; MTBT1; MTBT2; FTDP-17; FLJ31424; MGC138549; Tau-441 recombinant protein

PRODUCT SPECIFICATIONS

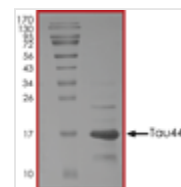
Host	E Coli
Purity/Purification	>90%
Form/Format	Recombinant protein stored in 50mM sodium phosphate, pH7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.2mM DTT, 25% glycerol.
Concentration	0.2ug/mL (varies by lot)
Applicable Applications for Tau-441 recombinant protein	WB (Western Blot), Kinase Assay
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Tau Proteins: Representation of seven Tau proteins, from top to bottom: Tau-441, Tau-410, Tau-412, Tau-381, Tau-383, Tau-352 and Tau-316.



SDS-PAGE

The purity of Tau-441 (244-372) was determined to be >90% by densitometry. Approx. MW 17kDa (14.91kDa by MW calculation).

ADDITIONAL INFORMATION

Related Product Information for Tau-441 recombinant protein	Description : Recombinant human Tau-441 (244-372) was expressed in E Coli cells using an N-terminal His tag. The protein accession number is P10636-8. Scientific Background: Tau-441 or Tau-F is a member of the Tau family of proteins which function to stabilize the microtubules by binding to them. Tau proteins are subject to phosphorylation and this phenomenon regulates the association of the Tau protein with the microtubules (1). Deposits of Alzheimer's disease AD-associated proteins, such as hyperphosphorylated Tau, as well as other shared misfolded proteins, such as, beta-amyloid precursor protein (betaAPP), ubiquitin, and various chaperones and protein kinases are thought to play a pathologic role in the cognitive decline and muscular failure. Malfunctioning of Tau proteins is associated with microtubules disintegration and collapsing of the neuronal transport system (2).
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Product Categories/Family for Tau-441 recombinant protein	Tau Proteins; Invasion/Metastasis; Neurobiology; p38 Pathway
References	1. Zilka, N., et al. Truncated tau from sporadic Alzheimer's disease suffices to drive neurofibrillary degeneration in vivo. FEBS Lett. 2006; 508: 3582-3588. 2. Rial, A. et al: Calcium Dyshomeostasis in β -Amyloid and Tau-bearing Skeletal Myotubes. J. Biol. Chem., 2004; 279: 3524-53532.

NCBI AND UNIPROT INFORMATION

NCBI GI #	294862258
NCBI GeneID	4137
NCBI Accession #	NP_001116538.2
NCBI GenBank Nucleotide #	NM_001123066.3
UniProt Accession #	P10636; P18518; Q14799; Q15549; Q15550; Q15551; Q1RMF6; Q53YB1; Q5CZ17; Q5XWF0; Q6QT54; Q9UDJ3
NCBI Official Full Name	microtubule-associated protein tau isoform 6
NCBI Official Synonym Full Names	microtubule-associated protein tau
NCBI Official Symbol	MAPT
NCBI Official Synonym Symbols	TAU; MSTD; PPND; DDPAC; MAPTL; MTBT1; MTBT2; FTDP-17
NCBI Protein Information	microtubule-associated protein tau; PHF-tau; paired helical filament-tau; neurofibrillary tangle protein; microtubule-associated protein tau, isoform 4; G protein beta1/gamma2 subunit-interacting factor 1
UniProt Protein Name	Microtubule-associated protein tau
UniProt Gene Name	MAPT
UniProt Synonym Gene Names	MAPTL; MTBT1; TAU; PHF-tau
UniProt Entry Name	TAU_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.