

# Human Tau/Tau441, C-His (isoform 2N4R) Protein

## HA210937



<b>Product name:</b>	Human Tau/Tau441, C-His (isoform 2N4R)
<b>Species reactivity:</b>	Human
<b>Bio-Activity:</b>	Testing in progress.
<b>Protein construction description:</b>	A DNA sequence encoding the human Tau/Tau441 protein (P10636-8) (Met 1-Leu 441) was expressed with a His tag at the C-terminus.

**Background:** This gene encodes the microtubule-associated protein tau (MAPT) whose transcript undergoes complex, regulated alternative splicing, giving rise to several mRNA species. MAPT transcripts are differentially expressed in the nervous system, depending on stage of neuronal maturation and neuron type. MAPT gene mutations have been associated with several neurodegenerative disorders such as Alzheimer's disease, Pick's disease, frontotemporal dementia, cortico-basal degeneration and progressive supranuclear palsy. Subsequent oxidation, fragmentation and/or cross-linking of ketamine leads to the production of advanced glycation endproducts (AGES). Glycation may play a role in stabilizing PHF aggregation leading to tangle formation in AD.

**Purity:** >95% as determined by SDS-PAGE.

**Endotoxin:** Less than 1.0 EU per µg by the LAL method.

**Fragment region:** Tau/Tau441 (1-441)

**Source:** HEK293

**Accession:** P10636-8

**Predicted molecular mass:** 47.2 kD

**Formulation:** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.

**Reconstitution:** Reconstitute at 250 µg/ml in sterile water.

**Storage:** Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

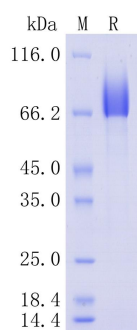
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**Fig1:** Protein on SDS-PAGE under reducing (R) condition.

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