

Human Total Tau ELISA Kit

Quantitative sandwich ELISA for human Total Tau (MAPT), a biomarker of neuronal injury and axonal damage with applications in Alzheimer's disease, other tauopathies, and traumatic brain injury (TBI) research.

The Human Total Tau ELISA Kit is a quantitative sandwich immunoassay detecting total Tau in serum, plasma, and other biological fluids. This kit supports research into Alzheimer's disease, frontotemporal dementia, progressive supranuclear palsy, CTE, and traumatic brain injury.

Tau (MAPT) is a microtubule-associated protein expressed predominantly in axons, where it stabilizes microtubule polymerization. In disease, Tau becomes hyperphosphorylated, dissociates from microtubules, and aggregates into paired helical filaments — the neurofibrillary tangles that define Alzheimer's disease and other tauopathies (PSP, CBD, FTD-tau, CTE). Total Tau in CSF is elevated in conditions of neuronal damage, reflecting axonal degeneration rather than tauopathy per se. The combination of reduced CSF A β 42 and elevated CSF total Tau (T-tau) and phospho-Tau (P-tau181) constitutes the classical AD biomarker signature. CSF T-tau: healthy adults ~150–300 pg/mL; AD: typically >400 pg/mL.

Ordering Information

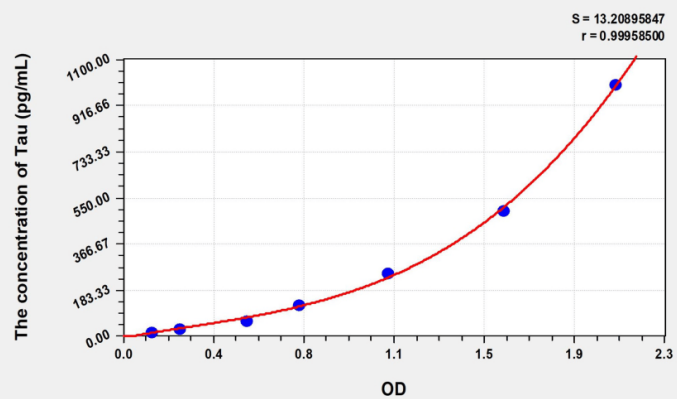
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ENZ-KIT276-0001	
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Manuals, SDS & CofA

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- Detects **total Tau**
- Validated for **serum, plasma**, and other biological fluids
- 96-well breakaway strip format; intra-assay CV <8%; inter-assay CV <10%
- Broad neurodegeneration marker — pairs with ENZ-KIT273/274 (A β 42/40) for comprehensive AD biomarker profiling; also applicable to TBI, CJD, and neurological injury research



Representative Standard Curve — Human Total Tau
ELISA Kit (ENZ-KIT276)

Handling & Storage

Use/Stability	When stored and handled as directed, the kit is stable until the expiration date on the label.
Handling	Store at 4°C upon receipt. For extended storage, keep at –20°C. Use before the expiry date printed on the label.
Short Term Storage	+4°C
Long Term Storage	–20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Application	ELISA
Application Notes	Quantification of total Tau in serum, plasma, and other biological fluids for Alzheimer’s disease, tauopathy, and TBI research. Use in combination with ENZ-KIT273/274 (Aβ42/40) for complete amyloid/neurodegeneration biomarker profiling. Not phospho-specific — for P-tau181, P-tau231, see relevant phospho-Tau assays.
Assay Time	3.5 hours
Compatibility	Standard 96-well microplate reader capable of reading absorbance at 450 nm.
Contents	Pre-Coated Microplate, 96 well (12 breakaway strips of 8); Standard (Lyophilized); Biotinylated Detection Antibody (100×); Streptavidin-HRP Conjugate (100×); Standard/Sample Diluent Buffer; Biotinylated Antibody Diluent; HRP Diluent; Wash Buffer (25×); TMB Substrate Solution; Stop Reagent; Adhesive Plate Covers
Gene/Protein Identifier	MAPT
Sensitivity	5.4 pg/mL (Detection range: 15.63–1,000 pg/mL)
Species Reactivity	Human
Specificity	Human Total Tau

Technical Info / Product Notes

Two-step sequential sandwich ELISA. Capture antibody pre-coated on breakaway 96-well strips. Step 1: sample/standard incubation, 37°C, 80 min. Step 2: biotinylated detection antibody, 37°C, 50 min. Step 3: Streptavidin-HRP, 37°C, 50 min. Step 4: TMB substrate, 37°C, 20 min (protected from light). Stop reagent added; read at 450 nm. Intra-assay CV <8%; inter-assay CV <10%. Standard reconstituted in Standard/Sample Diluent Buffer. Do not mix reagents from different lot numbers (exception: TMB, Wash Buffer, Stop Reagent). Azide-free buffers required — azide inhibits HRP color development.

Detection range: 15.63–1,000 pg/mL. Sensitivity: 5.4 pg/mL.

UniProt ID P10636

Wavelength 450 nm



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