

Human Tau-441 GSK-3beta-phosphorylated Protein, Tag Free

Catalog # TAU-H511e



Synonyms

DDPAC, FTDP-17, MAPT, MSTD, MTBT1, Tau, PHF-tau, TAU

Source

Human Tau-441 GSK-3beta-phosphorylated Protein, Tag Free (TAU-H511e) is expressed from *E. coli* cells. It contains AA Met 1 - Leu 441 (Accession # [P10636-8](#)).

Predicted N-terminus: Met 1

Molecular Characterization

Tau(Met 1 - Leu 441)
P10636-8

This protein carries no "tag".

The protein has a calculated MW of 45.8 kDa. The protein migrates as 40 kDa, 50 kDa and 55-63 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Purity

>90% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping and Storage

This product is supplied and shipped on dry ice.

Please avoid repeated freeze-thaw cycles.

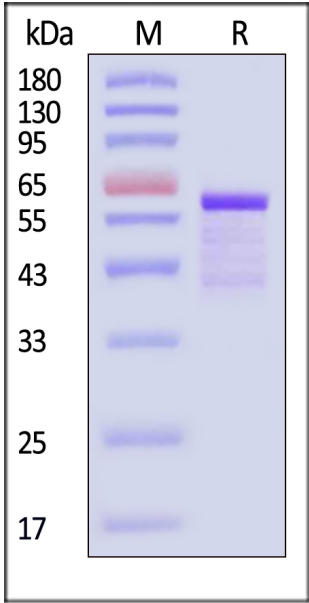
This product is stable after storage at:

- The product **MUST** be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

ACRO Quality Management System

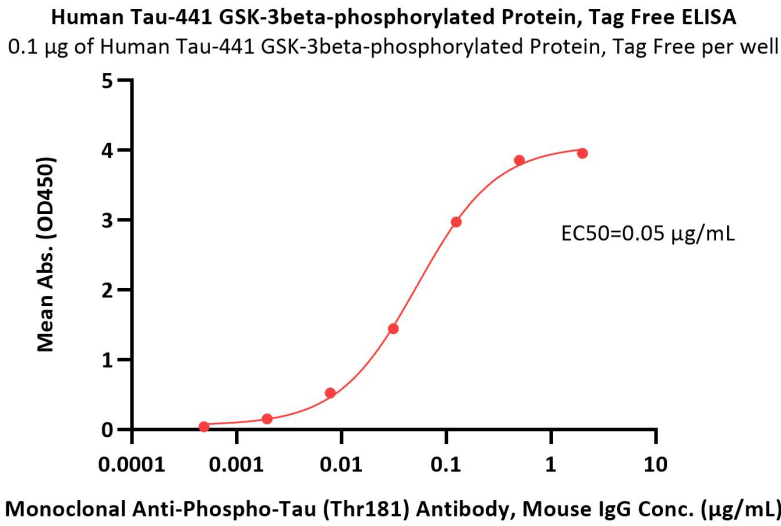
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE

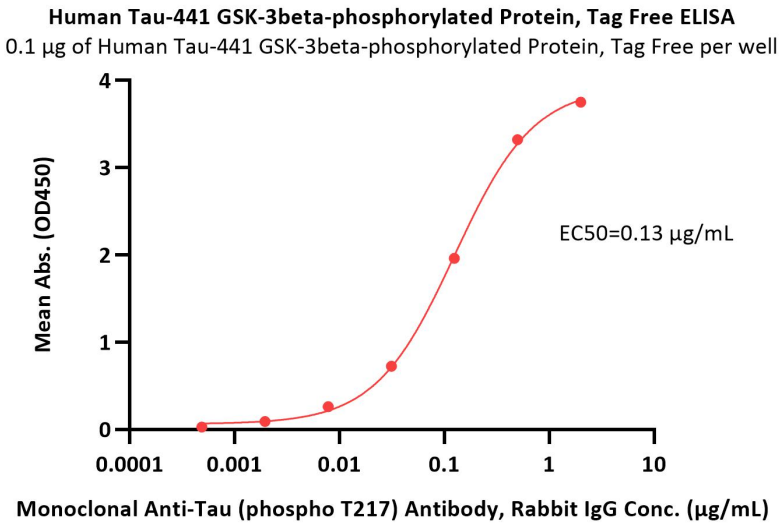


Human Tau-441 GSK-3beta-phosphorylated Protein, Tag Free on SDS-PAGE under reduction (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

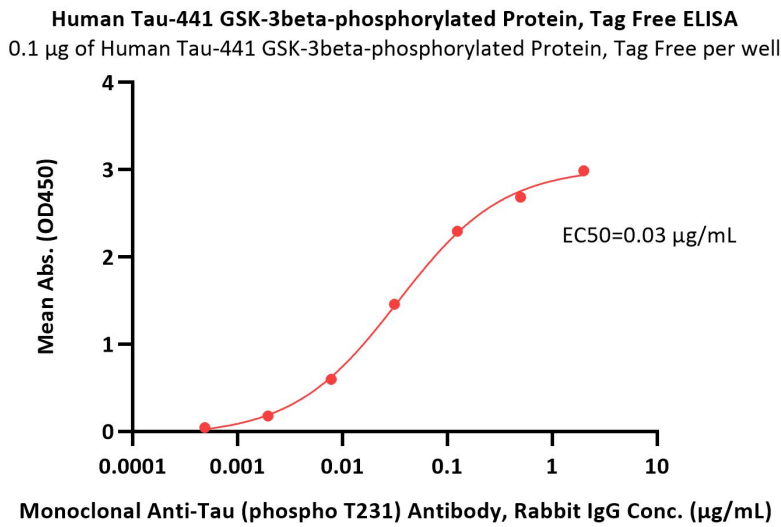
Bioactivity-ELISA



Immobilized Human Tau-441 GSK-3beta-phosphorylated Protein, Tag Free (Cat. No. TAU-H511e) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-Phospho-Tau (Thr181) Antibody, Mouse IgG with a linear range of 0.0005-0.125 µg/mL (QC tested).



Immobilized Human Tau-441 GSK-3beta-phosphorylated Protein, Tag Free (Cat. No. TAU-H511e) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-Tau (phospho T217) Antibody, Rabbit IgG with a linear range of 0.0005-0.5 µg/mL (Routinely tested).



Immobilized Human Tau-441 GSK-3beta-phosphorylated Protein, Tag Free (Cat. No. TAU-H511e) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-Tau (phospho T231) Antibody, Rabbit IgG with a linear range of 0.0005-0.125 µg/mL (Routinely tested).

Background

p-Tau181 is a crucial blood-based biomarker for Alzheimer’s disease. It reflects tau pathology and amyloid-β burden, offering a non-invasive, accessible, and cost-effective tool for early detection, screening, and clinical management of cognitive impairment. Recombinant human tag-free Tau-441 was co-expressed with an active kinase in *E. coli* cells, followed by a proprietary treatment to selectively phosphorylate Thr181 while leaving Thr217 and Thr231 unphosphorylated.



www.acrobiosystems.com