promise
ADVANCED PROTEOMICS

Tel : +33 (0) 4.38.02.36.50
contact@promise-proteomics.com
www.promise-proteomics.com

Product name	TAU 441
Catalog number	TA928520
Uniprot ID	P10636-8

Product description

Human microtubule-associated protein Tau (MAPT) promotes microtubule assembly and stability. Tau exists in six isoforms which vary for presence or absence of specific amino acidic regions. It is the main component of the intracellular filamentous inclusions that are involved in neurodegenerative diseases (1).

Synonyms: TAU-F, Tau-4, 2N4R

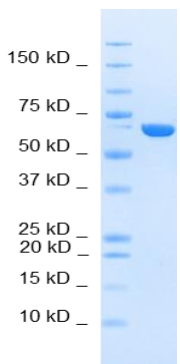
Protein sequence

MAEPRQEFEVMEDHAGTYGLGDRKDQGGYTMHQDQEGDTDAGLKESPLQTPTEDGSEEPGSETSDAKSTPTAEDVTAPLVDEGAPGKQA
AAQPHTEIPEGTTAEEAGIGDTPSLEDEAAGHVTQARMVSKSKDGTGSDDKKAKGADGKTKIATPRGAAPPGQKGQANATRIPAKTPPAPKT
PPSSGEPPKSGDRSGYSSPGSPGTPGSRSRTPSLPTPPTREPKKVAVVRTPPKSPSSAKSRLQTAPVPMPDLKNVKSKIGSTENLKHQPGGGKV
QIINKKLDLSNVQSKCGSKDNIKHVPGGGSVQIVYKPVDLSKVTSKCGSLGNIHHKPGGGQVEVKSEKLDFKDRVQSKIGSLDNITHVPGGGNK
KIETHKLTFRENAKAKTDHGAEIVYKSPVVSGDTSPRHLSNVSSTGSIDMV DSPQLATLADEVSASLAKQGL

Product features and protocols

Purity

>95%
as determined by SDS-PAGE



SDS-PAGE gel analysis of Tau 441 protein in Reducing/Heated conditions (RH) and stained with Coomassie blue.

Other features

Predicted MW	45.8 kDa
Expression System	*E.coli*
Purification Tag	No tag
Protein content	Determined by BCA assay with BSA as standard
Formulation	Lyophilized from 50 mM Tris pH 8.0; 100 mM NaCl; 1 mM DTT; 1 mM EDTA buffer

Product preparation

For product preparation we recommend the following steps:

1. Briefly centrifuge the tube before opening
2. Reconstitute by adding the appropriate volume of ultrapure water for a final concentration of 200 µg/ml (e.g. 50 µl for 10 µg or 250 µl for 50 µg conditioning)
3. Vortex gently to insure complete dissolution
4. Wait 15 minutes at room temperature before proceeding further
5. Vortex gently again and centrifuge **briefly**

Product storage

The product is lyophilized and shipped at room temperature. **Store at -80 °C upon receipt.**
After reconstitution, the protein can be preserved at 4°C for a few weeks.

Avoid multiple freeze-thaw cycles

The product is intended for research use only. Not for diagnostic or therapeutic use.

1. **T. McAvoy et al.**, Quantification of Tau in Cerebrospinal Fluid by Immunoaffinity Enrichment and TandemMass Spectrometry, 2014 Clinical Chemistry 60:4