

# Recombinant human Tau 381 (1N3R)/MAPT protein

Catalog Number: ATGP0814

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-381aa

### UniProt No.

P10636

### NCBI Accession No.

NP\_001190180.1

### Alternative Names

Microtubule-associated protein tau isoform 7, Neurofibrillary tangle protein, Paired helical filament-tau, PHF-tau, G protein beta1/gamma2 subunit-interacting factor 1, protein phosphatase 1 regulatory subunit 103, MTBT1, PPND, FTDP-17, TAU, MSTD, MTBT2, FLJ31424, MGC138549, PPP1R103, tau-40, DDPAC, MAPTL

## PRODUCT SPECIFICATION

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### Molecular Weight

41.8 kDa (401aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

### Concentration

0.5mg/ml (determined by BCA assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 20% glycerol, 0.1mM PMSF

### Purity

> 85% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Tau, also known as microtubule-associated protein tau (MAPT), is a protein that stabilizes microtubules. It is abundant in neurons in the central nervous system and is less common elsewhere. When this protein is

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defective, and no longer stabilizes microtubules properly, it can result in dementias, such as Alzheimer's disease. Recombinant human Tau protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

## Amino acid Sequence

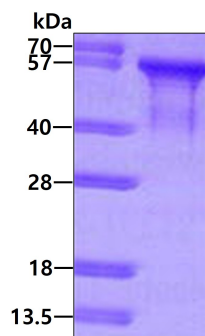
<MGSSHHHHHH SSSLVPRGSH> MAEPRQEFEV MEDHAGTYGL GDRKDQGGYT MHQDQEGDTD AGLKESPLQT  
PTEDGSEEPG SETSDAKSTP TAEAEAEAGIG DTPSLEDEAA GHVTQARMVS KSKDGTGSDD KKAKGADGKT KIATPRGAAP  
PGQKGQANAT RIPAKTTPAP KTPSSGEPP KSGDRSGYSS PGSPGTPGSR SRTPSLPTPP TREPKKVAVV RTPPKSPSSA  
KSRLQTAPVP MPDLKKNVSK IGSTENLKHQ PGGGKVQIVY KVDLSKVTS KCGSLGNIHH KPGGGQVEVK SEKLDKDRV  
QSKIGSLDNI THVPGGGNKK IETHKLFRE NAKAKTDHGA EIVYKSPVVS GDTSPRHLSN VSSTGSIDMV DSPQLATLAD  
EVSASLAKQG L

## General References

Cross D., et al. (1993), J Cell Sci. 105: 51-60.  
Lubke u., et al. (1994), Am. J. Pathol. 145: 175-188

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.