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

Catalog Number: ATGP0814

#### PRODUCT INFORMATION

#### **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

### **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**

## **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**

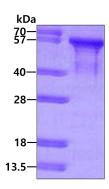
<MGSSHHHHHH SSGLVPRGSH> MAEPRQEFEV MEDHAGTYGL GDRKDQGGYT MHQDQEGDTD AGLKESPLQT PTEDGSEEPG SETSDAKSTP TAEAEEAGIG DTPSLEDEAA GHVTQARMVS KSKDGTGSDD KKAKGADGKT KIATPRGAAP PGQKGQANAT RIPAKTPPAP KTPPSSGEPP KSGDRSGYSS PGSPGTPGSR SRTPSLPTPP TREPKKVAVV RTPPKSPSSA KSRLQTAPVP MPDLKNVKSK IGSTENLKHQ PGGGKVQIVY KPVDLSKVTS KCGSLGNIHH KPGGGQVEVK SEKLDFKDRV QSKIGSLDNI THVPGGGNKK IETHKLTFRE NAKAKTDHGA EIVYKSPVVS GDTSPRHLSN VSSTGSIDMV DSPQLATLAD EVSASLAKOG 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.

