

Recombinant human Tau 412 (1N4R)/MAPT protein

Catalog Number: ATGP1030

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-412aa

UniProt No.

P10636

NCBI Accession No.

NP_001116539

Alternative Names

microtubule-associated protein tau isoform 5, tau-E, 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

45.1 kDa (432aa) 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 8.0) containing 20% glycerol

Purity

> 80% by SDS-PAGE

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 defective, and no longer stabilizes microtubules property, 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

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by using conventional chromatography.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MAEPRQEFEV MEDHAGTYGL GDRKDQGGYT MHQDQEGDTD AGLKESPLQT
PTEDGSEEPG SETSDAKSTP TAEAEAGIG DTPSLEDEAA GHVTQARMVS KSKDGTGSDD KKAKGADGKT KIATPRGAAP
PGQKGQANAT RIPA KTPPSSGEPP KSGDRSGYSS PGSPGTPGSR SRTPSLPTPP TREP KKVAVV RTPPKSPSSA
KSRLQTAPVP MPDLKNVSK IGSTENLKHQ PGGGKVQIIN KKLDLSNVQS KCGSKDNIH VPGGGSVQIV YKPVDLSKVT
SKCGSLGNIH HKPGGGQVEV KSEKLD FKDR VQSKIGSLDN ITHVPGGGNK KIETHKLTFR ENAKAKTDHG AEIVYKSPVV
SGDTSRPHLS NVSSTGSIDM VDSPQLATLA DEVSASLAKQ GL

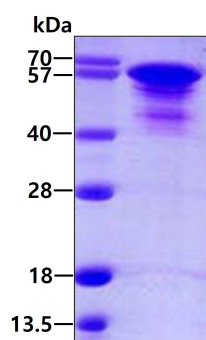
General References

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.