Recombinant human Tau 352 (0N3R)/MAPT protein

Catalog Number: ATGP0646

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-352aa

UniProt No.
P10636

NCBI Accession No.
NP_058525

Alternative Names
microtubule-associated protein isoform 4, fetal tau, 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
38.9 kDa (372aa) confirmed by MALDI-TOF (Real Molecular weight on SDS-PAGE will be shift up)

Concentration
0.5mg/ml (determined by BCA assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M Nacl, 1mM DTT, 10% glycerol

Purity
> 85% 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
MAPT, also known as TAu, is a neuronal microtubule associated protein found predominantly on axons. The function of this protein is to promote tubulin polymerisation and stabilise microtubules, but it also serves to link certain signalling pathways to the cytoskeleton. MAPT, in its hyperphosphorylated form, is the major component of paired helical filaments (PHF) and neurofibrillary lesions in Alzheimer's disease (AD) brain. Recombinant

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human MAPT protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques

Amino acid Sequence

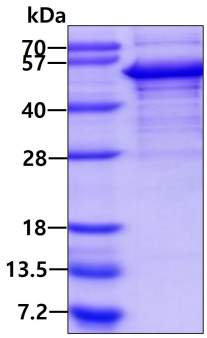
<MGSSHHHHHH SSGLVPRGSH> MAEPRQEFEV MEDHAGTYGL GDRKDQGGYT MHQDQEGDTD AGLKAEEAGI GDTPSLEDEA AGHVTQARMV SKSKDGTGSD DKKAKGADGK TKIATPRGAA PPGQKGQANA TRIPAKTPPA PKTPPSSGEP PKSGDRSGYS SPGSPGTPGS RSRTPSLPTP PTREPKKVAV VRTPPKSPSS AKSRLQTAPV PMPDLKNVKS KIGSTENLKH QPGGGKVQIV YKPVDLSKVT SKCGSLGNIH HKPGGGQVEV KSEKLDFKDR VQSKIGSLDN ITHVPGGGNK KIETHKLTFR ENAKAKTDHG AEIVYKSPVV SGDTSPRHLS NVSSTGSIDM VDSPQLATLA DEVSASLAKQ GL

General References

Jack CR Jr., et al. (2010) Lancet Neurol. 9(1):119-28.
Buescher JL., et al. (2010) J Biol Chem. 285(11):7957-63.

DATA

SDS-PAGE



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