

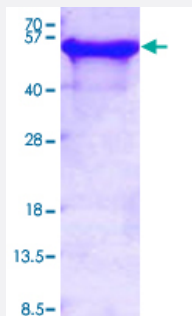
Full-Length

MAPT (Human) Recombinant Protein

Catalog # P3559

Size 50 ug

Applications



Specification

Product Description

Human MAPT (NP_058518, 1 a.a. - 383 a.a.) full-length recombinant protein with His tag expressed in *Escherichia coli*.

Sequence

MGSSHHHHHHSSGLVPRGSHMAEPRQEFVMEHDAGTYGLGDRKDQGGYTMHQDQEGDTDA
GLKAEAEAGIGDTPSLEDEAAGHVTQARMVSKSKDGTGSDDKKAKGADGKTKIATPRGAAPPGQ
KGQANATRIPAKTPPAPKTPSSGEPPKSGDRSGYSSPGSPGTPGSRSRTPSLPTPPTREPKKV
AVVRTPPKSPSSAKSRLQTAPVPMPLKKNVSKIGSTENLKHQPGGGKVQIINKLDLSNVQSKC
GSKDNIKHVPGGGSVQIVKPVVLSKVTSCGSLGNIHHKPGGGQVEVKSEKLDFKDRVQSKIGS
LDNITHVPGGGNKKIETHKLTFRENAKAKTDHGAEIVKSPVVSGDTSRHLNSVSSTGSIDMVDS
PQLATLADEVASLAKQGL

Host

Escherichia coli

Theoretical MW (kDa)

42.1

Form

Liquid

Preparation Method

Escherichia coli expression system

Purification

Conventional Chromatography

Concentration

1 mg/mL

Purity

> 90% by SDS-PAGE

Quality Control Testing

Loading 3 ug protein in 15% SDS-PAGE

Storage Buffer

In 20 mM Tris-HCl buffer, 0.1 M NaCl, pH 8.0 (10% glycerol).

Storage Instruction

Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C.
Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

Gene Info — MAPT

Entrez GeneID

[4137](#)

Protein Accession#

[NP_058518](#)

Gene Name

MAPT

Gene Alias

DDPAC, FLJ31424, FTDP-17, MAPTL, MGC138549, MSTD, MTBT1, MTBT2, PPND, TAU

Gene Description

microtubule-associated protein tau

Omim ID

[157140](#) [168600](#) [172700](#) [260540](#) [600274](#) [601104](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

This gene encodes the microtubule-associated protein tau (MAPT) whose transcript undergoes complex, regulated alternative splicing, giving rise to several mRNA species. MAPT transcripts are differentially expressed in the nervous system, depending on stage of neuronal maturation and neuron type. MAPT gene mutations have been associated with several neurodegenerative disorders such as Alzheimer's disease, Pick's disease, frontotemporal dementia, cortico-basal degeneration and progressive supranuclear palsy. [provided by RefSeq]

Other Designations

G protein beta1/gamma2 subunit-interacting factor 1|microtubule-associated protein tau, isoform 4

Pathway

- [MAPK signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Amyloidosis](#)
- [Amyotrophic lateral sclerosis](#)
- [Aphasia](#)
- [Atherosclerosis](#)
- [Atrophy](#)
- [Autistic Disorder](#)
- [Brain Concussion](#)
- [Brain Diseases](#)
- [Brain Ischemia](#)
- [Cardiovascular Diseases](#)
- [Carotid Stenosis](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Craniofacial Abnormalities](#)
- [Creutzfeldt-Jakob Syndrome](#)
- [Dementia](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Disease Progression](#)
- [Dystonia](#)
- [Frontotemporal Dementia](#)
- [Frontotemporal Lobar Degeneration](#)
- [Genetic Predisposition to Disease](#)

- [Hallucinations](#)
- [Huntington disease](#)
- [Inversion](#)
- [Memory Disorders](#)
- [Mental Retardation](#)
- [Mental Status Schedule](#)
- [Metabolic Syndrome X](#)
- [Mouth Abnormalities](#)
- [Movement Disorders](#)
- [Myocardial Infarction](#)
- [Neoplasms](#)
- [Nerve Degeneration](#)
- [Neurodegenerative Diseases](#)
- [Neuropsychological Tests](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Parkinson disease](#)
- [Parkinsonian Disorders](#)
- [Perceptual Disorders](#)
- [Pick Disease of the Brain](#)
- [Prion Diseases](#)
- [Psychomotor Disorders](#)
- [Psychomotor Performance](#)
- [Psychotic Disorders](#)
- [Schizophrenia](#)

- [Supranuclear Palsy](#)
- [Syndrome](#)
- [Tauopathies](#)
- [Thrombosis](#)
- [Tourette Syndrome](#)
- [Visual Perception](#)