# **Recombinant Human Tau-D Protein (His Tag)**

Catalog Number: PKSH032757



Note: Centrifuge before opening to ensure complete recovery of vial contents.

### **Description**

Synonyms Microtubule-Associated Protein Tau; Neurofibrillary Tangle Protein; Paired Helical

Filament-Tau; PHF-Tau; MAPT; MAPTL; MTBT1; TAU

SpeciesHumanExpression HostE.coli

Sequence Gln249-Gln381
Accession P10636-6
Calculated Molecular Weight 15.4 kDa
Observed molecular weight 16 kDa
Tag C-His

## **Properties**

**Purity** > 80 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from a 0.2 µm filtered solution of PBS, 1mM PMSF, pH 7.4.

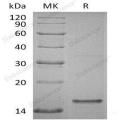
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

#### Data



> 80 % as determined by reducing SDS-PAGE.

### Background

Microtubule-Associated Protein TAU is abundantly expressed in neurons of the central nervous system and less commonly expressed elsewhere, but is also expressed at very low levels in CNS astrocytes and oligodendrocytes. Tau interacts with tubulin to stabilize microtubules and promotes tubulin assembly into microtubules. The C-terminus of TAU binds axonal microtubules while the N-terminus binds neural plasma membrane components, suggesting that tau acts as a linker protein. When tau is defective, and no longer stabilize microtubules properly, it can result in dementias such as Alzheimer's disease and other tauopathies.

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