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Datasheet for ABIN1097616 **tau Protein (AA 249-381) (His tag)**

Overview

Quantity:	50 µg
Target:	tau
Protein Characteristics:	AA 249-381
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This tau protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Microtubule-Associated Protein Tau/MAPT-D/Tau-D (C-6His)
Sequence:	<p>MQIVYKPVDL SKVTSKCGSL GNIHHKPGGG QVEVKSEKLD FKDRVQSKIG SLDNITHVPG</p> <p>GGNKKIETHK LTFRENAKAK TDHGAEIVYK SPVVSQDTSP RHLSNVSTG SIDMVDSPQL</p> <p>ATLADEV SAS LAKQLEHHHH HH</p>
Characteristics:	Recombinant Human Microtubule-Associated Protein Tau/MAPT is produced with our E. coli expression system. The target protein is expressed with sequence (Gln249-Gln381) of Human MAPT.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	tau
Alternative Name:	tau (tau Products)
Background:	<p>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.</p> <p>Alternative Names: Microtubule-Associated Protein Tau, Neurofibrillary Tangle Protein, Paired Helical Filament-Tau, PHF-Tau, MAPT, MAPTL, MTBT1, TAU</p>
Molecular Weight:	15.37 kDa
UniProt:	P10636

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>
Expiry Date:	3 months