

DATA SHEET

Product Name: Tau K18, C291S, C322S Mutant

Catalog #: T-1017

Source: Recombinant. Tau K18 is comprised of amino acids 244-372 of the full-length human tau sequence with mutations C291S and C322S

Molecular Mass: 13,781 Da

Protein Purity: >90% by SDS-PAGE and Mass spec.

Counter Ion: 50mM MES, pH 6.8, 100mM NaCl, 0.5mM EGTA

Supplied As: White lyophilized powder

Resuspension: Resuspend in water at conc. of .1-1 mg/ml. Recommended to briefly centrifuge to ensure full resuspension of product.

Storage: -20°C

Description: The tau K18 fragment comprises all four microtubule binding repeats (4R) of tau with mutations C291S and C322S. The K18 fragment of tau has a higher propensity of aggregation than the full-length protein¹, with this mutant form serving as a non-aggregating control². Applications for this construct could include aggregation experiments, microtubule binding studies³ and acetyltransferase activity⁴.

References:

1. Shammas S., et al., (2015) Nat Commun., 7025 (6)
2. Kim D., et al., (2015) Sci Rep. 5: 15231
3. Mukrasch MD., et al., (2005) J Biol Chem. 280(26): 24978-24986
4. Cohen TJ., et al., (2013) Nat Struct Mol Biol. 20(6): 756-762

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