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We are pleased to present our newly available Tau peptides for Alzheimer's disease research.

Both β -amyloid and tau-protein are related to Alzheimer's disease. Studies have shown that the extent of tau-related pathology correlates better with the degree of dementia than the amyloid plaque burden.

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PHF6 and related peptides

PHF6 **H-8098**

The sequence VQIVYK within the third repeat of tau is essential for fibrillization.

P.Ganguly et al., J. Phys. Chem. B 115, 4582 (2015)

Ac-Val-Tyr-Lys-NH₂ **H-8108**

Acetyl-PHF4 amide **H-8106**

Acetyl-PHF5 amide **H-8104**

The tau sequences VYK, IVYK, QIVYK, and VQIVYK are capable of polymerization into filamentous structures.

W.J.Goux et al., J. Biol. Chem., 279, 26868 (2004) / T.C.Gamblin, Biochim. Biophys. Acta 1739, 140 (2005)

Acetyl-PHF6 amide **H-8112**

The sequence tau (306-311), VQIVYK, within the third repeat of tau is essential for fibrillization.

W.J.Goux et al., J. Biol. Chem., 279, 26868 (2004) / F.A.Rojas Quijano et al., Biochemistry 45, 4638 (2006) / W.Li et al., J. Neurochem., 110, 1339 (2009)

Acetyl-PHF6KE amide **H-8122**

Acetyl-PHF6IV amide **H-8114**

Acetyl-PHF6QV amide **H-8118**

Acetyl-PHF6YA amide **H-8116**

W.J.Goux et al., J. Biol. Chem., 279, 26868 (2004)

T-Peptide **H-8126**

Highly neurotoxic cell-permeable analog of PHF6.

K.Zhao et al., J. Neurosci. Res. 88, 3399 (2010)

Tau sequences

Microtubule-Associated Protein (142-161) (human) **H-8062**

L.M.Smith et al., Int. Immunopharmacol. 21, 279 (2014)

Tau Peptide (1-16) **H-8004**

Tau Peptide (45-73) (Exon 2/Insert 1 Domain) **H-7804**

Tau Peptide (74-102) (Exon 3/Insert 2 Domain) **H-7806**

(Ser(PO₃H₂)²⁰²,Thr(PO₃H₂)²⁰⁵)- Tau Peptide (194-213) **H-8166**

(Thr(PO₃H₂)²³¹)-Tau Peptide (225-237) **H-8048**

A trans-cis conversion of the pThr²³¹-Pro²³² motif has been observed during early stages of Alzheimer's disease. Pin1 prevents the accumulation of the resulting pathogenic form of tau by reverting the isomerization.

Y.-T.Lin et al., J. Neurochem. 103, 802 (2007) / K.Nakamura et al., Cell 149, 232 (2012) / A.Kondo et al., Nature 523, 431 (2015)

Tau Peptide (244-274) (Repeat 1 Domain) **H-7982**

Acetyl-Tau Peptide (244-274) (Repeat 1 Domain) **H-7808**

Tau Peptide (245-274) (Repeat 1 Domain) **H-7978**

Tau Peptide (255-314) (Repeat 2 Domain) **H-8038**

(Ser(PO₃H₂)²⁶²)-Tau Peptide (260-264) PAb Blocking **H-7966**

Tau Peptide (268-282) **H-8068**

Tau Peptide (273-284) **H-8102**

Tau fragment containing the PHF6 region, which plays a central role in tau aggregation.

L.Larini et al., Phys. Chem. Chem. Phys. 15, 8916 (2013) / P.Ganguly et al., J. Phys. Chem. B 115, 4582 (2015)

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Acetyl-Tau Peptide (273-284) amide	H-8168
Tau Peptide (274-288)	H-8072
Tau Peptide (275-305) (Repeat 2 Domain)	H-7812
Tau Peptide (277-291)	H-8074
Tau Peptide (295-309)	H-8076
Tau Peptide (298-312)	H-8078
Tau Peptide (301-315)	H-8082
Tau Peptide (304-318)	H-8084
Tau Peptide (306-317)	H-8096
Tau Peptide (306-336) (Repeat 3 Domain)	H-7814
<p>The amphipathic helical structure of the third fragment (306-336, VQIVYKPVDLSKVTSKCGSLGNIHHKPGGGQ) in the four-repeat microtubule-binding domain of the water-soluble tau protein has been considered to be responsible for the formation of the neuropathological filament, and a possible self-assembly model of the microtubule-binding domain in tau protein is proposed</p> <p><i>B. Trinczek et al. Mol. Biol. Cell 6, 1887 (1995) / K. Minoura et al. Biochem. Biophys. Res. Commun. 294, 210 (2002) / Q.-F. Ma et al., Biopolymers 79, 74 (2005)</i></p>	
Biotinyl-Tau Peptide (306-336) (Repeat 3 Domain)	H-8028
Tau Peptide (307-321)	H-8086

J.-P. Guo et al., Proc. Natl. Acad. Sci. USA 103, 1953 (2006)

Tau Peptide (323-335)	H-7818
<p>The tau epitope was used for raising the anti-tau antibody BR135 directed against the microtubule-binding repeat region.</p> <p><i>M. Goedert et al., Neuron 3, 519 (1989) / M.G. Spillantini et al., Proc. Natl. Acad. Sci. USA 87, 3947 (1990) / P.H. Jensen et al., J. Biol. Chem. 274, 25481 (1999) / P. Delobel et al., Am. J. Pathol. 172, 123 (2008)</i></p>	
Tau Peptide (337-368) (Repeat 4 Domain)	H-7816
Tau Peptide (379-408)	H-8172
<p>The non-phosphorylated analog of the tau fragment 379-408 phosphorylated at Ser³⁹⁶ and Ser⁴⁰⁴ could partially block binding of antibodies against the 396/404 tau region.</p> <p><i>J. Gu et al., J. Biol. Chem. 288, 33081 (2013)</i></p>	
(Ser(PO ₃ H ₂) ^{396,404})- Tau Peptide (379-408)	H-8164
Lys-Trp-Lys-(Ser(GlcNAc-β-D) ⁴⁰⁰)- Tau Peptide (388 - 411)-Lys-Lys(biotinyl) amide	H-7822
Tau Peptide (472-487)-PEG6-(507-526) (human)	H-7988
Tau Peptide (512-525) amide	H-7984

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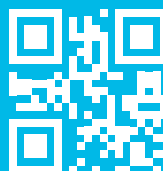
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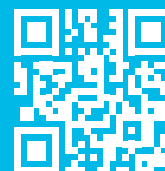
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