Amyloid β-Proteins (1-42) and (1-40)
A key cause of Alzheimer’s Disease (AD) is thought to be a protein called the Amyloid β-Protein (Aβ). This protein deposits in the brain to form what are called “amyloid plaques”.

Teplow’s Peptides: New Scrambled Versions
Our new partner, the Teplow laboratory seeks to understand and treat diseases associated with the aging process. Teplow’s Amyloid β-Protein (1-42) and Teplow’s Amyloid β-Protein (1-40), our “Teplow’s Peptides”, are new negative control peptides, designed by the Teplow laboratory for studies towards the aggregation behavior of Aβ. Teplow’s Amyloid β-Protein (1-42) and Teplow’s Amyloid β-Protein (1-40) are “scrambled”, which means they contain the same amino acids as the wild type forms of Aβ (1-42) and Aβ (1-40), but in different order. Teplow’s Peptides share unprecedented properties as they have a relatively flat hydropathy profile (Figure), which can be an advantage in several studies, if it is important to avoid unspecific interaction with cell membranes.

Teplow’s Peptides are excellent negative controls. Based on published results, they exhibit

- no formation of fibrils or β-sheets
- no oligomerization
- no toxicity to neuronal cells
- low hydropathy profile for minimum unspecific interaction with membranes

Figure. Hydropathy profiles for Aβ (1-42) (Aβ42), reverse Aβ (1-42) (rAβ42), and Teplow’s Amyloid β-Protein (1-42) (sAβ42). Reprinted with permission from Ghiam Yamin, Giovanni Coppola, and David B. Teplow. Design, Characterization, and Use of a Novel Amyloid β-Protein Control for Assembly, Neurotoxicity, and Gene Expression Studies. Biochemistry 2016, 55 (36), 5049-5060. Copyright (2016) American Chemical Society.

Aβ (1-42) AND Aβ (1-40) SCRAMBLED VERSIONS PEPTIDES

Teplow's Amyloid β-Protein (1-42) (scrambled II)  4104168  (H-8282)
Teplow's Amyloid β-Protein (1-40) (scrambled II)  4104167  (H-8278)

OVER 250 ALZHEIMER'S RESEARCH CATALOG PEPTIDES
WITH HIGHEST PEPTIDE QUALITY

- Amyloid β-Protein fragments of different lengths
- HFIP-treated as well as different salt forms
- Reverse, scrambled and all-D versions
- Labeled (Tide Fluor™, FAM, FITC, TAMRA, Biotin) Amyloid β-Proteins
- FRET-Substrates (DABCYL-EDANS)
- Amyloid β-Protein mutants
- Modified Amyloid β-Proteins
- β-Amyloid (mouse, rat): 1-42 & 1-40
- Modifiers of Amyloid β aggregation
- More than 40 Tau peptides

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