

Product Data Sheet

Product Name: β -Amyloid (1-40) (TFA)

Cat. No.: GC66089

Chemical Properties

Cas. No.

Formula $C_{194}H_{295}N_{53}O_{58}S.C_2HF_3O_2$ M.Wt 4443.84

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

DAEFRHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVV (TFA salt)

Background

β -Amyloid (1-40) TFA is a primary protein in plaques found in the brains of patients with Alzheimer's disease^[1].

β -Amyloid (1-40) and (1-42) are major components of senile plaque amyloids, are physiological peptides present in the brain, cerebrospinal fluid (CSF) and plasma. The levels of CSF β -Amyloid (1-40) and (1-42) show a U-shaped natural course in normal aging^[1].

The further aggregation of β -Amyloid (1-40)

1. Solid A β peptide was dissolved in cold hexafluoro-2-propanol (HFIP). The peptide was incubated

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at room temperature for at least 1h to establish monomerization and randomization of structure.

2. The HFIP was removed by evaporation, and the resulting peptide was stored as a film at -20 or -80°C.

3. The resulting film was dissolved in anhydrous DMSO at 5 mM and then diluted into the appropriate concentration and buffer (serum- and phenol red-free culture medium) with vortexing.

4. Next, the solution was age 48h at 4-8°C. The sample was then centrifuged at 14000g for 10 min at 4-8°C; the soluble oligomers were in the supernatant. The supernatant was diluted 10-200-fold for experiments.

Methods vary depends on the downstream applications.

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