Product Data Sheet

Product Name: β-Amyloid (10-35), amide
Cat. No.: GC31146

Chemical Properties

Cas. No.	181427-66-7		
SMILES	Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe-Ala-Glu-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-NH2		
Formula	$C_{133}H_{205}N_{35}O_{36}S$	M.Wt	2902.33
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	β-Amyloid (10-35), amide		

Background

β-Amyloid (10-35), amide is composed of 26 aa (10-35 residues of the Aβ peptide) and is the primary component of the amyloid plaques of Alzheimer's disease.

β-Amyloid (10-35) is selected based on the following considerations: (1) β-Amyloid (10-35) incorporates the core region, point mutations of which significantly obstruct fibril formation and have been used to generate inhibitors of fibrillogenesis; (2) β-Amyloid (10-35) retains the ability to add to bona fide Alzheimer's plaques, in contrast to other truncated peptides, and forms fibrils morphologically similar to those of the full length peptide; (3) Of most importance, the full length peptide, Aβ(1-42), is intractable for the controlled formation of fibrils from aqueous media because at the earliest time points, some of the peptide exists as an amorphous precipitate. In contrast, the use of β-Amyloid (10-35) allows the reproducible and controlled formation of fibrils from aqueous solutions, under defined conditions of pH, ionic strength, and peptide concentration and thus yields the required homogeneous fibrils[1].

[1]. Benzinger TL, et al. Propagating structure of Alzheimer's beta-amyloid(10-35) is

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parallel beta-sheet with residues in exact register. Proc Natl Acad Sci U S A. 1998 Nov 10;95(23):13407-12.

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