
Product Data Sheet

Product Name: β -Amyloid 29-40 (Amyloid beta-protein(29-40))

Cat. No.: GC31137

Chemical Properties

Cas. No. 184865-04-1

SMILES Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val

Formula C₄₉H₈₈N₁₂O₁₃S M.Wt 1085.36

Solubility Soluble in DMSO 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

Background

β -Amyloid (29-40) is a fragment of Amyloid- β peptide.

β -Amyloid (29-40) is a fragment of Amyloid- β peptide, unsoluble in water, acetonitrile or in a mixture of both in different ratios. Cationic arginine residues is introduced at β -Amyloid (29-40) C-terminus to solubilize β -Amyloid (29-40) and introduce cationicity in this A β stretch to enable it to interact with the negatively charged membrane of bacteria. β -Amyloid (29-40) variants shows antimicrobial effect[1]. Single chain variable fragments (scFv's) binds the 17-28 region of Abeta and effectively inhibits in vitro aggregation of Abeta, but binding the carboxyl-terminal region of β -Amyloid (29-40) does not inhibit aggregation[2].

[1]. Harioudh MK, et al. A short non-cytotoxic antimicrobial peptide designed from A β 29-40 adopts a nanostructure and shows in vivo anti-endotoxin activity. Chem Commun (Camb). 2017 Dec 5;53(97):13079-13082. [2]. Liu R, et al. Single chain variable fragments against beta-amyloid (Abeta) can inhibit Abeta aggregation and prevent abeta-induced neurotoxicity. Biochemistry. 2004 Jun 8;43(22):6959-67.

Caution: Product has not been fully validated for medical applications. For research use only.

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