
Product Data Sheet

Product Name: β -Amyloid 1-28 (Amyloid β -Protein (1-28))

Cat. No.: GC31171

Chemical Properties

Cas. No. 109770-29-8

SMILES Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe-Ala-Glu-Asp-Val-Gly-Ser-Asn-Lys

Formula C₁₄₅H₂₀₉N₄₁O₄₆ M.Wt 3262.51

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 (1-28) is a β -Amyloid protein fragment involved in metal binding. Beta-amyloid is a peptide that forms amyloid plaques in the brains of Alzheimer's disease (AD) patients.

β -Amyloid (1-28) fragment is considered as valid models to examine the contribution of the key histidine residues (His , His in mouse and His , His , His in human fragments) to the Ab-Cu²⁺ interaction[1]. Copper binds to β -Amyloid (1-28) at pH 7.4 with an affinity of $K_{a10^7} M^{-1}$ [2].

[1]. Kowalik-Jankowska T, et al. Coordination abilities of the 1-16 and 1-28 fragments of beta-amyloid peptide towards copper(II) ions: a combined potentiometric and spectroscopic study. J Inorg Biochem. 2003 Jul 1;95(4):270-82. [2]. Syme CD, et al. Copper binding to the amyloid-beta (Abeta) peptide associated with Alzheimer's disease: folding, coordination geometry, pH dependence, stoichiometry, and affinity of Abeta-(1-28): insights from a range of complementary spectroscopic techniques. J Biol Chem. 2004 Apr 30;279(18):18169-77.

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

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