SignalChem
Specialists in Signaling Proteins
1-866-9 KINASE (54-6273)

Catalogue #	Aliquot Size
A06-58I-100	100 ug
A06-58I-500	500 ug

Amyloid beta 42, Biotin-LC-labeled

Synthetic peptide derived from human amyloid (1-42)

Catalog # A06-58I
Lot # T2065-9

Product Description

The synthetic Amyloid β 42 Peptide (Modified DAEFRHDSGY EVHHQKLVFF AEDVGSNKGA IIGLMVGGVV IA) is derived from human amyloid β (amino acid 1-42).

Molecular Weight

The theoretical molecular weight is 4853.35

Purity

The purity was determined to be ≥95% by HPLC analysis.

Storage and Stability

Store product at –20°C. For optimal storage, aliquot diluted product into smaller quantities and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Scientific Background

Amyloid peptides, derived from amyloid precursor protein (APP), are thought to play a role in the development of the senile plaques associated with Alzheimer's Disease. The amyloid hypothesis presupposes that flaws in the processing of APP result in abnormally high levels of the longer, "stickier" forms of beta amyloid, known as Aβ42 and Aβ43, leading to aggregation of amyloid in the neuronal cell death and ultimately neuronal death. Mutations in the structure of Aβ40 and related peptides as well as in some of the enzymes involved in the processing of APP have been shown to alter the processing of APP. The sporadic (i.e., non-genetic) form of the disease, however, is far more common, caused by aging in concert with a number of both genetic and environmental risk factors.

References

1. Esler WP, et al: Stereochemical specificity of Alzheimer's disease beta-peptide assembly. Biopolymers. 1999 May;49(6):505-14.
2. Roher AE, et al: beta-Amyloid-(1-42) is a major component of cerebrovascular amyloid deposits: implications for the pathology of Alzheimer disease. Proc Natl Acad Sci U S A. 1993 Nov 15;90 (22):10836-40.

Formulation

The peptide supplied in trifluroacetate salt as a lyophilized powder.

Reconstitution Protocol

Dilute peptide in distilled water to make the working solution.

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Catalog Number	A06-58I
Specific Lot Number	T2065-9
Purity	> 95%
Format	Lyophilized powder
Stability	1yr At –20°C from date of shipment
Storage & Shipping	Store product at –20°C. For optimal storage, aliquot diluted product into smaller quantities and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped at ambient temperature.

To place your order, please contact us by phone 1-(604)-232-4600, fax 1-604-232-4601 or by email: orders@signalchem.com
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