
A β 1-42 Peptide

Catalog Number: bs-0107P

AA Seq: DAEFRHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGWIA

Predicted MW: 4.514

Activity: Yes

Purification: HPLC

Storage: Shipped at 4°C. Stored at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The cerebral and vascular plaques associated with Alzheimer's disease are mainly composed of Amyloid beta peptides. beta Amyloid is derived from cleavage of the Amyloid precursor protein and varies in length from 39 to 43 amino acids. beta Amyloid [1-40], beta Amyloid [1-42], and beta Amyloid [1-43] peptides result from cleavage of Amyloid precursor protein after residues 40, 42, and 43, respectively. The cleavage takes place by gamma-secretase during the last Amyloid precursor protein processing step. beta Amyloid [1-40], beta Amyloid [1-42], and beta Amyloid [1-43] peptides are major constituents of the plaques and tangles that occur in Alzheimer's disease. beta Amyloid antibodies and peptides have been developed as tools for elucidating the biology of Alzheimer's disease.

PRODUCT SPECIFIC PUBLICATIONS

[IF=5.1] Jiang Rui. et al. Ceftriaxone Modulates Ubiquitination of α -Amino-3-Hydroxy-5-Methyl-4-Isoxazole Propionic Acid Receptors to Improve Long-Term Potentiation Impairment Induced by Exogenous β -Amyloid in a Glutamate Transporter-1 Dependent Manner. MOL NEUROBIOL. 2024 Feb;;1-14 Other ; . 38374316

[IF=3.994] Chang KW et al. Activation of α 7 nicotinic acetylcholine receptor alleviates A β 1-42-induced neurotoxicity via downregulation of p38 and JNK MAPK signaling pathways. Neurochem Int. 2018 Nov;120:238-250. Other ; . 30217465

[IF=3.361] Wang M et al. 5-HT1AR alleviates A β -induced cognitive decline and neuroinflammation through crosstalk with NF- κ B pathway in mice. Int Immunopharmacol. 2020 Mar 3;82:106354. Other ; mouse . 32143008

[IF=2.23] Wang, Changfu, et al. "Isolation and screened neuroprotective active constituents from the Roots and Rhizomes of Valeriana amurensis." Fitoterapia (2014). Other ; ="Rat" . 24742562

[IF=2.274] Chang K et al. PNU282987 alleviates A β -induced anxiety and depressive-like behaviors through

upregulation of $\alpha 7$ nAChR by ERK-serotonin receptors pathway. Neurosci Lett . 2020 Jul 13;731:135118.
Other ; . 32502508