Product Data Sheet

Product Name:	β-Amyloid (25-35)
Catalog Number:	AS-24227 (1 mg) Lot Number: See label on vial AS-24228 (5 mg)
Sequence:	H-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-OH (3-letter code) GSNKGAIIGLM (1-letter code)
Molecular Weight:	1061.3
% Peak Area by HPLC:	≥ 95
Appearance:	Lyophilized white powder

Peptide Reconstitution: β-Amyloid (25-35) peptide is freely soluble in H_2O.

Storage: β-Amyloid (25-35) peptide is shipped at ambient temperature. Upon receipt, store lyophilized peptide at –20°C or lower. Reconstituted peptide can be aliquoted and stored at –20°C or lower.

Description: Aβ (25-35) is the main factor responsible for Aβ neurotoxic effects. Ref: Carvalho, K. et al. Braz. *J. Med. Biol*. *Res.* **3**, 1153 (1997).

Additional Information: *Listed below are relevant information that may provide a guideline on how to use this product. End users will have to adapt to their own specific applications.*

The Aβ25–35 peptides used in this study were purchased from AnaSpec (San Jose, CA). Purity was certified by high-performance liquid chromatography–mass spectrometry for each of the peptide. The peptides were resuspended in sterile double-deionized water, aliquoted at 5 mg/ml, and kept at – 20°C-Hashioka, S. et al. *Free Radical Bio. Med.* **42**, 945 (2007).

Synthetic Aβ25–35, obtained from AnaSpec, was dissolved in deionized distilled water at a concentration of 2.5 mM and stored at −80 °C. Previous to the experiments the stock solution was diluted to the desired concentrations, maintained for 3 h at room temperature and then added to the culture medium. After treatment with the doses of Aβ and times indicated in the text, the cells were analyzed by optical and fluorescence microscopy to evaluate cell viability, or collected and saved for posterior RNA extraction and microarray analysis- Martínez, T. and A. Pascual *Brain Res. Bull*. **72**, 225 (2007).

Synthetic β-Amyloid peptides 25-35 and 35-25 (Aβ25-35, Aβ35-25) and FAM-labeled β-Amyloid peptide 1-40 (FAM-Aβ1-40) were purchased from AnaSpec, Inc. (San Jose, CA). Aggregated Aβ25-35 and Aβ1-40 were prepared at 4 °C for 60 h, and were then incubated at 37 °C for 48 h. Oligomeric, fibrillar, and aggregated Aβ1-42 and aggregated FAM-Aβ1-40 were prepared as described. Briefly, Aβ peptides were dissolved to a final concentration of 1 mM in hexafluoroisopropanol (Sigma–Aldrich). Hexafluoroisopropanol was removed using a speed vacuum. Aβ aliquot was resuspended in a solution containing 10 mM HCl and 150 mM NaCl, and then incubated at 37 °C for 24 h to form aggregated Aβ. Aβ aliquot was suspended in 10 mM HCl to a final concentration 100 μM and incubated at 37 °C for 24 h to form fibrillar Aβ- Huang, W-C. et al. *Neurosci. Res*. **63**, 280 (2009).

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Published Citations:

Yatin, SM. et al. *J. Mol. Neurosci.* **11**, 183. (1998).
Kawahara, M. and Y. Kuroda *Cell. Mol. Neurobio.* **21**, 1 (2001).
Egashira, N. et al. *Japanese J. Pharmacol.* **90**, 321 (2002).
Pu, F. et al. *J. Health Sci.* **51**, 636 (2005).
Hashioka, S. et al. *Free Radical Bio. Med.* **42**, 945 (2007).
Martínez, T. and A. Pascual *Brain Res. Bull*. **72**, 225 (2007).
Nelson, TJ. and DL. Alkon *J. Biol. Chem.* **282**, 31238 (2007).
Seyb, KI. et al. *J. Biomol. Screen.* **13**, 870 (2008).
Huang, W-C. et al. *Neurosci. Res*. **63**, 280 (2009).

Related Products:

Name	Cat #	Size
β-Amyloid (25-35) • HCl (GSNKGAIIGLM • HCl)	AS-23212	5 mg
Biotin-β-Amyloid (25-35) (Biotin-GSNKGAIIGLM)	AS-62451	1 mg
β-Amyloid (25-35), HiLyte Fluor™ 488-labeled (HiLyte FluorTM 488-GSNKGAIIGLM)	AS-63308	0.1 mg

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