



Product Data Sheet

Product Name:	β-Amyloid (1-39)	
Catalog Number:	AS-24295 (0.5 mg) AS-24296 (1 mg)	Lot Number: See label on vial
Sequence:	H-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-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-OH (3-letter code) DAEFRHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGV (1-letter code)	
Molecular Weight:	4230.7	
Peptide Purity:	>95%	
Appearance:	Lyophilized white powder	

Peptide Reconstitution: β-Amyloid (1-39) peptide is freely soluble in basic buffer.

Storage: β-Amyloid (1-39) 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: A number of Aβ protein variants, differing only at their carboxy terminus (1-39, 1-40, 1-42 and 1-43), are identified as the major components of the cerebral amyloid deposits in Alzheimer's disease. The length of the C-terminus is a critical determinant of the rate of amyloid formation ("kinetic solubility"), with only a minor effect on the thermodynamic solubility. Amyloid formation by the kinetically soluble peptides (e.g. 1-39) can be nucleated, or "seeded" by peptides which include the critical C-terminal residues (1-42, 26-42, 26-43, 34-42). Ref: Jarrett, JT. et al. *Biochem. 32*, 4693 (1993); Giacomelli, CE. and W. Norde, *Macromol. Biosci. 5*, 401 (2005).

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.*

A peptide homologous to the first 39 residues of Aβ, β-(1-39), was purchased from AnaSpec, Inc. (San Jose, CA). β-(1-39), H2, or a mixture of β-(1-39) and H2 (1:2 molar ratio) were dissolved in 0.01 M phosphate buffer, pH 7.2. The final concentration was 0.5 mg/ml for each peptide. The solution was passed through a 0.45-μm Millipore filter to remove dust and then degassed- [Ghanta, J. et al. *J Biol Chem* 271, 29525 \(1996\).](#)

Published Citations:

Ghanta, J. et al. *J Biol Chem* **271**, 29525 (1996).
Good, TA. et al. *Biophys J* **70**, 296 (1999)..
Pallitto, MM. et al. *Biochem* **38**, 3570 (1999).

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