



LKT Laboratories, Inc.

β -Amyloid Peptide (1-40), rat

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Product Information

Product ID A4851

CAS No. 131438-79-4

Chemical Name

Synonym Amyloid-B (1-40)

Formula $C_{190}H_{291}N_{51}O_{57}S$

Formula Wt. 4233.81

Melting Point

Purity $\geq 95\%$

Solubility Soluble in 5% acetic acid.

Store Temp -20°C

Ship Temp Ambient

Description Amyloid-B (A β) is a peptide cleavage product of amyloid precursor protein (APP) that is often used as a biomarker in Alzheimer's disease. Misfolded A β oligomers instigate conformation changes in other, normally folded A β oligomers, increasing the number of misfolded proteins and eventually forming neurotoxic plaques. These plaques impair cognitive performance in vivo. A β (1-42) is more fibrillogenic and more highly associated with Alzheimer's disease than A β (1-40), although the shorter form is more common.

H-Asp-Ala-Glu-Phe-Gly-His-Asp-Ser-Gly-Phe-Glu-Val-Arg-His-Gln-Lys-Leu-Val-Gly-Phe-Phe-Ala-Glu-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val-OH

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
A4851	0.5 mg	\$367.50
A4851	1 mg	\$579.60
A4851	2.5 mg	\$1160.30

References Hu J, el-Fakahany EE. Neuroreport. 4(6):760-762 (1993). Jia J, Kang L, Li S, et al. Amelioratory effects of testosterone treatment on cognitive performance deficits induced by soluble A β 1-42 oligomers injected into the hippocampus. Horm Behav. 2013 Aug;64(3):477-86. PMID: 23954394.

Yin YI, Bassit B, Zhu L, et al. gamma-Secretase Substrate Concentration Modulates the A β 42/A β 40 Ratio: Implications for Alzheimer Disease. J Biol Chem. 2007 Aug 10;282(32):23639-44. PMID: 17556361.

Hartmann T, Bieger SC, Brühl B, et al. Distinct sites of intracellular production for Alzheimer's disease A β 40/42 amyloid peptides. Nat Med. 1997 Sep;3(9):1016-20. PMID: 9288729.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.