



LKT Laboratories, Inc.

β-Amyloid Peptide (1-42), rat

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Product Information

Product ID A4854

CAS No. 166090-74-0

Chemical Name

Synonym Amyloid-β (1-42)

Formula C₁₉₉H₃₀₇N₅₃O₅₉S

Formula Wt. 4417.99

Melting Point

Purity ≥95%

Solubility Soluble in water. Soluble in 50 mM Tris buffer (1 mg/mL).

Store Temp -20°C

Ship Temp Ambient

Description Amyloid-β (Aβ) is a peptide cleavage product of amyloid precursor protein (APP) that is often used as a biomarker in Alzheimer's disease. Misfolded Aβ oligomers instigate conformation changes in other, normally folded Aβ oligomers, increasing the number of misfolded proteins and eventually forming neurotoxic plaques. These plaques impair cognitive performance in vivo. Aβ (1-42) is more fibrillogenic and more highly associated with Alzheimer's disease than Aβ (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-Phe-Phe-Ala-Glu-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val-Ile-Ala-OH

Bulk quantities available upon request

Product ID	Size
A4854	1 mg
A4854	2 mg
A4854	5 mg

References Jia J, Kang L, Li S, et al. Amelioratory effects of testosterone treatment on cognitive performance deficits induced by soluble Aβ1-42 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 Aβ42/Aβ40 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 Aβ40/42 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.