



LKT Laboratories, Inc.

Amyloid- β (1-40)

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Product Information

Product ID A4848

CAS No. 131438-79-4

Chemical Name

Synonym Amyloid-beta protein fragment (1-40)

Formula C₁₉₄H₂₉₅N₅₃O₅₈S

Formula Wt. 4329.8

Melting Point

Purity \geq 98%

Solubility Soluble in water
(-6mg/mL). Not directly
soluble in buffer or saline.

Store Temp -20° C

Ship Temp Ambient

Description Amyloid- β (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.

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-Val

Bulk quantities available upon request

Product ID	Size
A4848	1 mg

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.