



LKT Laboratories, Inc.

## Amyloid- $\beta$ (25-35)

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### Product Information

**Product ID** A4849

**CAS No.** 131602-53-4

**Chemical Name**

H-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-OH

**Synonym** Amyloid-beta protein fragment (25-35)

**Formula**  $C_{45}H_{81}N_{13}O_{14}S$

**Formula Wt.** 1060.27

**Melting Point**

**Purity**  $\geq 95\%$

**Solubility** Soluble in water  
( $\sim 6\text{mg/mL}$ ). Not directly  
soluble in buffer or saline.

**Store Temp**  $-20^{\circ}\text{C}$

**Ship Temp** Ambient

**Description** Amyloid- $\beta$  (A $\beta$ ) is a peptide cleavage product of amyloid precursor protein (APP) that is often used as a biomarker in Alzheimer's disease. Misfolded A $\beta$  oligomers instigate conformation changes in other, normally folded A $\beta$  oligomers, increasing the number of misfolded proteins and eventually forming neurotoxic plaques. These plaques impair cognitive performance in vivo.

**Bulk quantities available upon request**

Product ID	Size
A4849	1 mg
A4849	2 mg
A4849	5 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 $\beta$ 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 $\beta$ 42/A $\beta$ 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  $\beta$ 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.