

Amyloid beta 40

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The abnormal accumulation of [Amyloid beta](#) (A β) peptide in the brain is one of the most important hallmarks of Alzheimer's disease. A β is an aggregation-prone and toxic polypeptide with 39-43 residues, derived from the amyloid precursor protein proteolysis process. According to the amyloid hypothesis, abnormal accumulation of A β in the brain is the primary influence driving Alzheimer's disease pathologies. Among all kinds of A β isoforms, A β 40 and A β 42 are believed to be the most important ones. Although these two kinds of A β differ only in two amino acid residues, recent studies show that they differ significantly in their metabolism, physiological functions, toxicities, and aggregation mechanism. In this review, we mainly summarize the similarities and differences between A β 42 and A β 40, recent studies on selective inhibitors as well as probes will also be mentioned ¹⁾.

see also [Total Tau](#)

see also [Phosphorylated Tau](#)

see also [Amyloid beta 42](#)

¹⁾

Qiu T, Liu Q, Chen YX, Zhao YF, Li YM. A β 42 and A β 40: similarities and differences. J Pept Sci. 2015 Jul;21(7):522-9. doi: 10.1002/psc.2789. Epub 2015 May 28. PMID: 26018760.

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