

β-Amyloid (1-17)

Cat. No.:	HY-P1772
CAS No.:	186319-72-2
Molecular Formula:	C ₉₀ H ₁₃₀ N ₂₈ O ₂₉
Molecular Weight:	2068.2
Sequence:	Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr-Glu-Val-His-His-Gln-Lys-Leu
Sequence Shortening:	DAEFRHDSGYEVHHQKL
Target:	Amyloid-β
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	β-Amyloid (1-17) is a peptide of β-Amyloid, stabilizes the fibres and plays a role in Aβ fibre formation ^[1] .
In Vitro	<p>β-Amyloid Aggregation Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).</p> <ol style="list-style-type: none">1. Solid Aβ peptide was dissolved in cold hexafluoro-2-propanol (HFIP). The peptide was incubated at room temperature for at least 1h to establish monomerization and randomization of structure.2. The HFIP was removed by evaporation, and the resulting peptide was stored as a film at -20 or -80 °C.3. The resulting film was dissolved in anhydrous DMSO at 5 mM and then diluted into the appropriate concentration and buffer (serum- and phenol red-free culture medium) with vortexing.4. Next, the solution was age 48h at 4-8 °C. The sample was then centrifuged at 14000g for 10 min at 4-8 °C; the soluble oligomers were in the supernatant. The supernatant was diluted 10-200-fold for experiments. <p>Methods vary depends on the downstream applications.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. Shi JM, et al. Dissecting the behaviour of β-amyloid peptide variants during oligomerization and fibrillation. *Pept Sci*. 2017 Nov;23(11):810-817.
- [2]. Wei-wei Zhou, et al. Decreasing oxidative stress and neuroinflammation with a multifunctional peptide rescues memory deficits in mice with Alzheimer disease. *Free Radic Biol Med*. 2014 Sep;74:50-63.

Caution: Product has not been fully validated for medical applications. For research use only.

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