

## (Glu20)-Amyloid $\beta$ -Protein (1-42)

Cat. No.:	HY-P3846
CAS No.:	1802086-22-1
Molecular Formula:	C <sub>199</sub> H <sub>309</sub> N <sub>55</sub> O <sub>62</sub> S
Molecular Weight:	4495.98
Sequence Shortening:	DAEFRHDSGYEVHHQKLVFEAEDVGSNKGAIIGLMVGGWIA
Target:	Amyloid- $\beta$
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

#### Description

(Glu20)-Amyloid  $\beta$ -Protein (1-42) is a slower fibrillizing variant of amyloid  $\beta$ -protein (A $\beta$ ). The Glu20 mutation reduces the aggregation propensity of A $\beta$ 42 and prevents accumulation of the slowly fibrillizing peptide. Amyloid  $\beta$ -protein is the primary component of both vascular and parenchymal amyloid deposits in Alzheimer's disease<sup>[1][2]</sup>.

### REFERENCES

- [1]. Poduslo JF, et al. Receptor-mediated transport of human amyloid beta-protein 1-40 and 1-42 at the blood-brain barrier. *Neurobiol Dis.* 1999 Jun;6(3):190-9.
- [2]. Williams TL, et al. The effect of Alzheimer's A $\beta$  aggregation state on the permeation of biomimetic lipid vesicles. *Langmuir.* 2010 Nov 16;26(22):17260-8.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA