

## Citrullinated amyloid- $\beta$ (1-42) peptide (human)

<b>Cat. No.:</b>	HY-P5905
<b>Molecular Formula:</b>	C <sub>203</sub> H <sub>310</sub> N <sub>54</sub> O <sub>61</sub> S
<b>Molecular Weight:</b>	4515.02
<b>Sequence:</b>	Asp-Ala-Glu-Phe-{Cit}-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-Ile-Ala
<b>Sequence Shortening:</b>	DAEF-{Cit}-HDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVVIA
<b>Target:</b>	Amyloid- $\beta$
<b>Pathway:</b>	Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

#### Description

Citrullinated amyloid- $\beta$  (1-42) peptide (human) (Citrullinated A $\beta$  (1-42)) is a modified form of  $\beta$ -Amyloid (1-42) (HY-P1363) with a citrullination at the Arg5 site. Compared to the unmodified  $\beta$ -Amyloid (1-42), its formation of soluble low-molecular-weight oligomers is enhanced, the rate of fibril formation is reduced, and like unmodified A $\beta$ 42, it forms protofibrils comprised of parallel  $\beta$ -sheets<sup>[1]</sup>.

### REFERENCES

[1]. Osaki D, Hiramatsu H. Citrullination and deamidation affect aggregation properties of amyloid  $\beta$ -proteins. *Amyloid*. 2016 Dec;23(4):234-241.

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

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