

## (Pyr3)-Amyloid $\beta$ -Protein (3-42) (TFA)

<b>Cat. No.:</b>	HY-P4882A
<b>Molecular Formula:</b>	$C_{196}H_{299}N_{53}O_{55}.x C_2H_3O_2$
<b>Sequence:</b>	{Pyr}-Phe-Arg-His-Asp-Ser-Gly-Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe-Ala-Glu-A sp-Val-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val-Ile-Ala
<b>Sequence Shortening:</b>	{Pyr}-FRHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVVIA <small>(Pyr)-FRHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVVIA (TFA salt)</small>
<b>Target:</b>	Amyloid- $\beta$
<b>Pathway:</b>	Neuronal Signaling
<b>Storage:</b>	Sealed storage, away from moisture and light Powder    -80°C    2 years -20°C    1 year  * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (Need ultrasonic) H <sub>2</sub> O : 2.5 mg/mL (Need ultrasonic)
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: <math>\geq</math> 1.25 mg/mL (Infinity mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-<math>\beta</math>-CD in saline) Solubility: <math>\geq</math> 1.25 mg/mL (Infinity mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: 1.25 mg/mL (Infinity mM); Suspended solution; Need ultrasonic</li> </ol>

### BIOLOGICAL ACTIVITY

<b>Description</b>	(Pyr3)-Amyloid $\beta$ -Protein (3-42) TFA is the predominant amyloid $\beta$ -peptide structure deposited in human brain of Alzheimer's disease and Down's syndrome patients. (Pyr3)-Amyloid $\beta$ -Protein (3-42) TFA is suggested to accumulate in the brain and to trigger the formation of insoluble amyloid $\beta$ -peptide deposits <sup>[1]</sup> .
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### REFERENCES

[1]. Takahashi-Ito K, et.al. Memantine inhibits  $\beta$ -amyloid aggregation and disassembles preformed  $\beta$ -amyloid aggregates. Biochem Biophys Res Commun. 2017 Nov 4;493(1):158-163.

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

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