



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## 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	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:</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	Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val-Ile-Ala
<b>Target:</b>	Amyloid- $\beta$	
<b>Pathway:</b>	Neuronal Signaling	
<b>Storage:</b>	Sealed storage, away from moisture	
	Powder    -80°C    2 years	
	-20°C    1 year	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 25 mg/mL (5.54 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		0.2215 mL	1.1074 mL	2.2148 mL
	5 mM		0.0443 mL	0.2215 mL	0.4430 mL
	10 mM		---	---	---

Please refer to the solubility information to select the appropriate solvent.

### 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.

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

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