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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Cyclic AC253

Cat. No.:	HY-P10235	
Molecular Formula:	C ₁₂₆ H ₂₀₂ N ₄₂ O ₄₀ S ₂	
Molecular Weight:	3009.34	
Sequence:	Phe-Leu-Pro-Leu-Leu-Ile-Leu-Gly-Ser-Leu-Leu-Met-Thr-Pro-Pro-Val-Ile-Gln-Ala-Ile-His-Asp-Ala-Gln-Arg-NH ₂ (Disulfide bridge: Cys1-Cys26)	Phe-Leu-Pro-Leu-Leu-Ile-Leu-Gly-Ser-Leu-Leu-Met-Thr-Pro-Pro-Val-Ile-Gln-Ala-Ile-His-Asp-Ala-Gln-Arg-NH ₂ (Disulfide bridge: Cys ₁ -Cys ₂₆)
Sequence Shortening:	CLGRLSQELHRLQTYPRNTGSENTYC-NH ₂ (Disulfide bridge: Cys1-Cys26)	
Target:	Amylin Receptor	
Pathway:	GPCR/G Protein	
Storage:	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 : 100 mg/mL (33.23 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		0.3323 mL	1.6615 mL	3.3230 mL
	5 mM		0.0665 mL	0.3323 mL	0.6646 mL
	10 mM		0.0332 mL	0.1661 mL	0.3323 mL

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

BIOLOGICAL ACTIVITY

Description

Cyclic AC253 is an antagonist for amylin receptor, with IC₅₀ of 0.3 μM. Cyclic AC253 exhibits neuroprotective efficacy against Aβ toxicity and abrogates Aβ-induced impairment of hippocampal long-term potentiation. Cyclic AC253 penetrate blood-brain barrier (BBB)^[1].

In Vitro

Cyclic AC253 (0-10 μM) protects neuronal cells HFNs and N2a from Aβ₁₋₄₂-induced cytotoxicity and apoptosis^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Cyclic AC253 (200 μg/kg, ip, 3 times a week for 10 weeks) improves cognitive deficits in TgCRND8 mice model^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Alzheimer's Disease in TgCRND8 mice model ^[1]
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Dosage:	200 µg/kg
Administration:	ip, 3 times a week for 10 weeks
Result:	Improved cognitive deficits.

REFERENCES

[1]. Soudy R, et al., Cyclic AC253, a novel amylin receptor antagonist, improves cognitive deficits in a mouse model of Alzheimer's disease. *Alzheimers Dement (N Y)*. 2016 Dec 10;3(1):44-56.

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

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