

AC 187

Cat. No.:	HY-P1393
CAS No.:	151804-77-2
Molecular Formula:	C ₁₂₇ H ₂₀₅ N ₃₇ O ₄₀
Molecular Weight:	2890.25
Sequence:	Ac-Val-Leu-Gly-Lys-Leu-Ser-Gln-Glu-Leu-His-Lys-Leu-Gln-Thr-Tyr-Pro-Arg-Thr-Asn-Thr-Gly-Ser-Asn-Thr-Tyr-NH ₂
Sequence Shortening:	Ac-VLGKLSQELHKLQTYPRNTGNTY-NH ₂
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	AC 187 is a potent and orally active amylin receptor antagonist with an IC ₅₀ of 0.48 nM and a K _i of 0.275 nM. AC 187 shows more selective for amylin receptor than calcitonin and CGRP receptors. AC 187 has neuroprotective effects ^{[1][2]} .
IC ₅₀ & Target	IC ₅₀ : 0.48 nM (amylin receptor)
In Vitro	AC 187 blocks amyloid β protein (A β)-induced neurotoxicity. Treatment of cultures with AC 187 before exposure to A β results in significantly improved neuronal survival ^[1] . AC187 attenuates the activation of initiator and effector caspases that mediate A β -induced apoptotic cell death ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	AC 187 (30 mg/mL) increases glucagon concentration, accelerates gastric emptying of liquids, and results in an exaggerated post-challenge glycemia in hyperinsulinemic clamps in Sprague-Dawley (HSD) rats ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Jack H Jhamandas, et al. Antagonist of the amylin receptor blocks beta-amyloid toxicity in rat cholinergic basal forebrain neurons. J Neurosci. 2004 Jun 16;24(24):5579-84.

[2]. Bronislava R Gedulin, et al. Role of endogenous amylin in glucagon secretion and gastric emptying in rats demonstrated with the selective antagonist, AC187. Regul Pept. 2006 Dec 10;137(3):121-7.

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

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