## AC 187 TFA

®

MedChemExpress

Cat. No.:	HY-P1393A			
Molecular Formula:	$C_{129}H_{206}F_{3}N_{37}O_{42}$			
Molecular Weight:	3004.27			
Sequence:	Ac-Val-Leu-Gly-Lys-Leu-Ser-Gln-Glu-Leu-His-Lys-Leu-Gln-Thr-Tyr-Pro-Arg-Thr-Asn-Th Ac-VLGKLSQELHKLQTYPRTNTGSNTY-NH2 (TFA salt) r-Gly-Ser-Asn-Thr-Tyr-NH2			
Sequence Shortening:	Ac-VLGKLSQELHKLQTYPRTNTGSNTY-NH2			
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

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
		1 mM	0.3329 mL	1.6643 mL	3.3286 mL
		5 mM	0.0666 mL	0.3329 mL	0.6657 mL
- F		10 mM	0.0333 mL	0.1664 mL	0.3329 mL
	Please refer to the solubility information to select the appropriate solvent.				
n Vivo	1. Add each solvent Solubility: 100 mg	one by one: PBS /mL (33.29 mM); Clear solution; Nee	d ultrasonic		

Description	AC 187 TFA is a potent and orally active amylin receptor antagonist with an IC <sub>50</sub> of 0.48 nM and a K <sub>i</sub> of 0.275 nM. AC 187 TFA shows more selective for amylin receptor than calcitonin and CGRP receptors. AC 187 TFA has neuroprotective effects <sup>[1][2]</sup> .			
IC <sub>50</sub> & Target	IC50: 0.48 nM (amylin receptor)			
In Vitro	AC 187 blocks amyloidβ protein (Aβ)-induced neurotoxicity. Treatment of cultures with AC 187 before exposure to Aβ results in significantly improved neuronal survival <sup>[1]</sup> . AC187 attenuates the activation of initiator and effector caspases that mediate Aβ-induced apoptotic cell death <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

# Product Data Sheet

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<sup>[2]</sup>. 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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