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Product Data Sheet

Inhibitors • Screening Libraries • Proteins

α-CGRP (mouse, rat) (TFA)

Cat. No.:	НҮ-Р0203А	
Molecular Formula:	C ₁₆₂ H ₂₆₂ N ₅₀ O ₅₂ S ₂ .C ₂ HF ₃ O ₂	
Molecular Weight:	3920.27	
Sequence Shortening:	SCNTATCVTHRLAGLLSRSGGVVKDNFVPTNVGSEAF-NH2 (Disulfide bridge:Cys2-Cys7)	SCNTATCVTHRLAGLLSRSGGVVKDNFVPTNVGSEAF-NH ₂ (Disulfide bridge:Cys2-Cys7) (TFA salt)
Target:	CGRP Receptor	(Uisuinde bildge.0352-0351) (TFA sait)
Pathway:	GPCR/G Protein; Neuronal Signaling	
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
I		1 mM	0.2551 mL	1.2754 mL	2.5508 mL
·		5 mM	0.0510 mL	0.2551 mL	0.5102 mL
		10 mM			

BIOLOGICAL ACTIVITY Description α-CGRP (mouse, rat) TFA, a neuropeptide (calcitonin gene-related peptide (CGRP)) mainly expressed in neuromuscular junction, is a potent vasodilator. α-CGRP (mouse, rat) TFA can lead to a fall in blood pressure and an increase in heart rate by peripheral administration, also relax colonie smooth muscle. α-CGRP (mouse, rat) TFA has the potential in cardiovascular, pro-inflammatory, migraine and metabolic studies^{[1][2][3][4]}. In Vitro α -CGRP (mouse, rat) TFA can regulate the innate lymphoid cell response in 2 groups^[1]. α -CGRP (mouse, rat) TFA regulates insulin secretion and reduces the risk of type 2 diabetes^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. In Vivo α-CGRP (mouse, rat) TFA (0.25, 0.5, 1 µg/kg/min, intravenous) dose-dependent decreases mean arterial blood pressure, while heart rate and systemic vascular conduction increased, while cardiac output remained unchanged^[3]. α -CGRP (mouse, rat) TFA plays an important role in the regulation of Kainic acid (KA) induced pyramid-cell death in hippocampal CA3 region^[4]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Whitby K, et al. Castanospermine, a potent inhibitor of dengue virus infection in vitro and in vivo. J Virol. 2005 Jul;79(14):8698-706.

[2]. Xu H, et al. Transcriptional Atlas of Intestinal Immune Cells Reveals that Neuropeptide α -CGRP Modulates Group 2 Innate Lymphoid Cell Responses. Immunity. 2019 Oct 15;51(4):696-708.e9.

[3]. Arulmani U, et al. Effects of the calcitonin gene-related peptide (CGRP) receptor antagonist BIBN4096BS on alpha-CGRP-induced regional haemodynamic changes in anaesthetised rats. Basic Clin Pharmacol Toxicol. 2004 Jun;94(6):291-7.

[4]. Park SH, et al. Role of α -CGRP in the regulation of neurotoxic responses induced by kainic acid in mice. Peptides. 2013 Jun;44:158-62.

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

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