

Icatibant acetate

Cat. No.:	HY-108896
CAS No.:	138614-30-9
Molecular Formula:	C ₆₁ H ₉₃ N ₁₉ O ₁₅ S
Molecular Weight:	1364.57
Target:	Bradykinin Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the COA.

BIOLOGICAL ACTIVITY

Description	Icatibant acetate (HOE-140 acetate) is a potent and specific peptide antagonist of bradykinin B2 receptor with IC ₅₀ and K _i of 1.07 nM and 0.798 nM respectively ^{[1][2][3]} .	
In Vitro	Icatibant (10-30 μM) potentiates angiotensin III, but not angiotensin II (contraction mediated by angiotensin AT1 receptors), and Lys-des-Arg9-bradykinin, but not des-Arg9-bradykinin (effects mediated by the bradykinin B1 receptors) ^[3] .	
In Vivo	Icatibant (10-30 μM) potentiates angiotensin III, but not angiotensin II (contraction mediated by angiotensin AT1 receptors), and Lys-des-Arg9-bradykinin, but not des-Arg9-bradykinin (effects mediated by the bradykinin B1 receptors) ^[3] .	
	Animal Model:	Female mice of the CBA/J (H-2 ^k) strain ^[2] .
	Dosage:	0.06, 0.3, or 1.5 mg/kg.
	Administration:	Subcutaneous administration twice daily.
	Result:	The length of the large intestine was 93.6±6.8 mm with the 1.5 mg/kg dosage and 94.0±4.1 mm with the 0.3 mg/kg dosage, showing a significant preventive effect on shortening.

CUSTOMER VALIDATION

- Sci Rep. 2020 Aug 25;10(1):14160.
- Biochem Biophys Res Commun. 2016 Apr 29;473(2):396-402.

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REFERENCES

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- [1]. Hock FJ, et al. Hoe 140 a new potent and long acting bradykinin-antagonist: in vitro studies. Br J Pharmacol. 1991 Mar;102(3):769-73.
- [2]. Y Arai, et al. Effect of Icatibant, a Bradykinin B2 Receptor Antagonist, on the Development of Experimental Ulcerative Colitis in Mice. Dig Dis Sci. 1999 Apr;44(4):845-51.
- [3]. Marie-Thérèse Bawolak, et al The Bradykinin B2 Receptor Antagonist Icatibant (Hoe 140) Blocks Aminopeptidase N at Micromolar Concentrations: Off-Target Alterations of Signaling Mediated by the Bradykinin B1 and Angiotensin Receptors. Eur J Pharmacol. 2006 Dec 3;551(1-3):108-11.
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Caution: Product has not been fully validated for medical applications. For research use only.

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