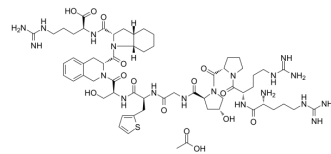


## Icatibant acetate

Cat. No.:	HY-108896
CAS No.:	138614-30-9
Molecular Formula:	C <sub>61</sub> H <sub>93</sub> N <sub>19</sub> O <sub>15</sub> S
Molecular Weight:	1364.57
Target:	Bradykinin Receptor
Pathway:	GPCR/G Protein
Storage:	Sealed storage, away from moisture and light Powder    -80°C    2 years -20°C    1 year

\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (73.28 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
1 mM			0.7328 mL	3.6642 mL	7.3283 mL
5 mM			0.1466 mL	0.7328 mL	1.4657 mL
10 mM			0.0733 mL	0.3664 mL	0.7328 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Icatibant acetate (HOE-140 acetate) is a potent and specific peptide antagonist of bradykinin B2 receptor with an IC<sub>50</sub> and K<sub>i</sub> of 1.07 nM and 0.798 nM respectively<sup>[1][2][3]</sup>.

#### 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)<sup>[3]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

#### 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)<sup>[3]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model: Female mice of the CBA/J (H-2<sup>k</sup>) strain<sup>[2]</sup>.

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

- Adv Sci (Weinh). 2022 Oct 18;e2203088.
- Sci Rep. 2020 Aug 25;10(1):14160.
- Biochem Biophys Res Commun. 2016 Apr 29;473(2):396-402.
- J Renin Angiotensin Aldosterone Syst. 14 Jun 2022.

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## REFERENCES

- [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

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

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