

Icatibant

Catalog No: tcsc3381



Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg



Specifications

CAS No:

130308-48-4

Formula:

$C_{59}H_{89}N_{19}O_{13}S$

Pathway:

GPCR/G Protein

Target:

Bradykinin Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

HOE 140

Observed Molecular Weight:

1304.52

Product Description

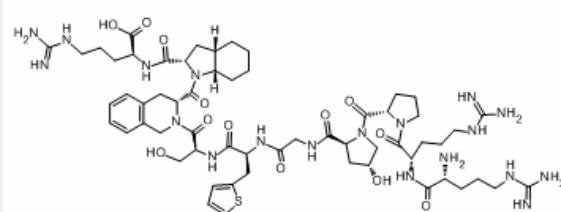
Icatibant(HOE-140) is a selective and specific antagonist of bradykinin B2 receptor with IC₅₀ and K_i of 1.07 nM and 0.798 nM respectively.

IC₅₀ value: 1.07 nM [1]

Target: bradykinin B2 receptor antagonist

in vitro: In receptor binding studies in guinea-pig ileum preparations, Hoe 140 showed an IC₅₀ of 1.07×10^{-9} mol l⁻¹ and a K_i value of 7.98×10^{-10} mol l⁻¹. In isolated organ preparations Hoe 140 and D-Arg-[Hyp²,Thi^{5,8}, D-Phe⁷]BK inhibited bradykinin-induced contractions concentration dependently, with IC₅₀-values in the guinea-pig ileum preparation of 1.1×10^{-8} mol l⁻¹ and 3×10^{-5} mol l⁻¹, respectively. pA₂ values in this tissue were 8.42 and 6.18, respectively [1].

in vivo: HOE 140 (1, 3, or 10 µg/10 µl physiological saline) was administered into the wound by a sterile micropipette. HOE 140 (1, 3, 10 µg) significantly relieved mechanical allodynia and guarding in comparison with vehicle-treated group [2]. HOE-140 (10 nmol/kg) protected against memory impairment. This treatment attenuated the brain edema, interleukin-1β, tumor necrosis factor-α, and nitric oxide metabolites content elicited by mLFPI. Accordingly, HOE-140 administration protected against the increase of nicotinamide adenine dinucleotide phosphate oxidase activity, thiobarbituric-acid-reactive species, protein carbonylation generation, and Na⁺ K⁺ ATPase inhibition induced by trauma [3].



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