Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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

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

IC50 value: 1.07 nM [1]

Target: bradykinin B2 receptor antgonist

in vitro: In receptor binding studies in guinea-pig ileum preparations, Hoe 140 showed an IC50 of 1.07 x 10(-9) mol l-1 and a KI value of 7.98 x 10(-10) mol l-1. In isolated organ preparations Hoe 140 and D-Arg-[Hyp2,Thi5,8, D-Phe7]BK inhibited bradykinin-induced contractions concentration dependently, with IC50-values in the guinea-pig ileum preparation of 1.1 x 10(-8) mol l-1 and 3 x 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].