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

Zatebradine

Catalog No: tcsc3620

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
85175-67-3

Formula:
$C_{26}H_{36}N_2O_5$

Pathway:
Membrane Transporter/Ion Channel

Target:
HCN Channel

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
UL-FS49

Observed Molecular Weight:
456.57

Product Description

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Zatebradine(UL-FS49) is a potent HCN channels antagonist, which decreased the heartbeat in a reversible manner; 92% inhibition of the hHCN1-mediated current at 10 uM.

IC50 value: 10 uM(92% 92% inhibition of the hHCN1) [1]

Target: hHCN channel antagonist

The pharmacological properties of hHCN1-mediated currents resembled those of native hyperpolarization-activated currents (I(h)), that is, blockade by Cs(+) (99% at 5 mm), ZD 7288 (98% at 100 microm) and zatebradine (92% at 10 microm) [1]. When voltage-clamp pulse trains were applied, cilobradine induced a use-dependent blockade of If that was stronger and faster than that with zatebradine. Recovery from blockade during prolonged hyperpolarization was significantly faster with zatebradine [2]. The selective HCN blocker zatebradine reduced the activity of oriens-lacunosum moleculare interneurons in wild-type but not HCN2(-/-) mice and decreased the frequency of spontaneous inhibitory currents in postsynaptic CA1 pyramidal cells [3].