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

# Zatebradine (hydrochloride)

## Catalog No: tcsc3619

### Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

### Specifications

**CAS No:**
91940-87-3

**Formula:**
$C_{26}H_{37}ClN_2O_5$

**Pathway:**
Membrane Transporter/Ion Channel

**Target:**
HCN Channel

**Purity / Grade:**
>98%

**Solubility:**
10 mM in DMSO

**Alternative Names:**
UL-FS-49;UL-FS-49CL

**Observed Molecular Weight:**
493.04

## Product Description

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Zatebradine(UL-FS49) Hcl 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].