

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

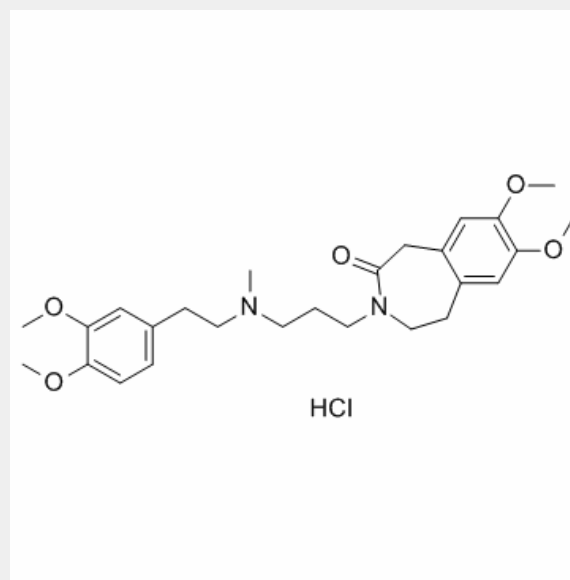
Product Description

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 molecular interneurons in wild-type but not HCN2(-/-) mice and decreased the frequency of spontaneous inhibitory currents in postsynaptic CA1 pyramidal cells [3].



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