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

Ivabradine (hydrochloride)

Catalog No: tcsc1994

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Size: 200mg

Specifications

CAS No:
148849-67-6

Formula:
$C_{27}H_{37}ClN_2O_5$

Pathway:
GPCR/G Protein

Target:
Adrenergic Receptor

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 51 mg/mL (100.98 mM)

Observed Molecular Weight:
505.05

Product Description

Ivabradine (hydrochloride) is a new I_f inhibitor with IC_{50} of 2.9 μM, and used as a pure heart rate lowering agent.

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In Vivo: Ivabradine treatment (10 mg/kg/d) induces long-term HRR, and that improves diastolic LV function probably involving attenuated hypoxia, reduced remodeling, and/or preserved nitric oxide bioavailability, resulting from processes triggered early after HRR initiation: angiogenesis and/or preservation of endothelial nitric oxide synthase expression[1]. Ivabradine leads to a sustained 15-20% heart rate reduction, but has no effect on blood pressure. While ivabradine has no effect on endothelial function and vascular reactive oxygen species production in angiotensin II-treated rats, it improves both parameters in ApoE knockout mice. Ivabradine treatment leads to an attenuation of angiotensin II signaling and increased the expression of telomere-stabilizing proteins in ApoE knockout mice, which may explain its beneficial effects on the vasculature. The absence of these protective ivabradine effects in angiotensin II-infused rats may relate to the treatment duration or the presence of arterial hypertension[2].