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

Istaroxime (hydrochloride)

Catalog No: tcsc1623

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
374559-48-5

Formula:
$C_{21}H_{33}ClN_2O_3$

Pathway:
Membrane Transporter/Ion Channel

Target:
Na+/K+ ATPase

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 45 mg/mL (113.36 mM)

Alternative Names:
PST2744 (hydrochloride)

Observed Molecular Weight:
396.95

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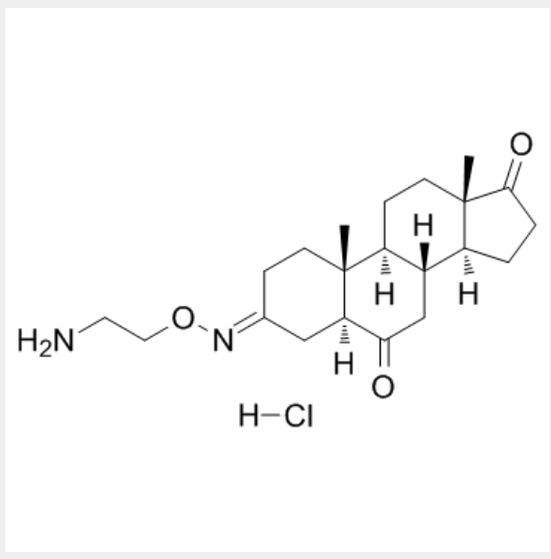
Product Description

Istaroxime hydrochloride is a potent inhibitor of **Na^+,K^+-ATPase** with **IC_{50}** of 0.11 μM.

IC50 & Target: IC50: 0.11 μM (Na^+,K^+-ATPase)[1]

In Vitro: Istaroxime hydrochloride acting as a positive inotropic compound through the inhibition of the Na^+,K^+-ATPase[2]. Istaroxime (PST2744) inhibits the Na^+/K^+-ATPase activity from dog kidney with an IC_{50} value of 0.43 ± 0.15 μM. Inhibition of Na^+/K^+-ATPase activity in preparations from guinea pig kidney yielded potencies of 8.5 μM for PST2744[3].

In Vivo: Istaroxime (PST2744) induces a progressive increase in $+dP/dt_{max}$ throughout the infusion that reaches 80% (ED_{80}) at the cumulative dose of 1.89±0.37 mg/kg and a peak of 140±3.5% at the dose (ED_{max}) of 4.88±0.6 mg/kg[3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!