

Istaroxime

Catalog No: tcsc1531



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

203737-93-3

Formula:

$C_{21}H_{32}N_2O_3$

Pathway:

Membrane Transporter/Ion Channel

Target:

Na⁺/K⁺ ATPase

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

PST2744

Observed Molecular Weight:

360.49

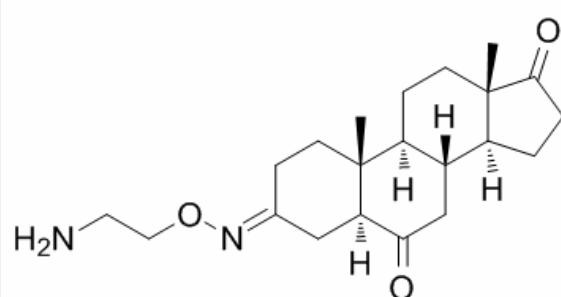
Product Description

Istaroxime is a potent inhibitor of **Na⁺,K⁺-ATPase** with **IC₅₀** of 0.11 μM.

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

In Vitro: Istaroxime 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 IC₅₀ 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% (ED₈₀) 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].



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