



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 ₂ O 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 IC_{50} of 0.11 μ M.

IC50 & Target: IC50: $0.11 \mu M (Na^+, K^+-ATPase)^{[1]}$

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 IC $_{50}$ value of 0.43 \pm 0.15 μ M. Inhibition of Na $^+$ /K $^+$ -ATPase activity in preparations from guinea pig kidney yielded potencies of 8.5 μ M 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].

$$H_2N$$

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