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Dronedarone (Hydrochloride)

Catalog No: tcsc0712

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
141625-93-6

Formula:
$C_{31}H_{45}ClN_2O_5S$

Pathway:
Autophagy;Membrane Transporter/Ion Channel

Target:
Autophagy;Potassium Channel

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
593.22

Product Description

Dronedarone hydrochloride is a non-iodinated amiodarone derivative that inhibits **Na^+**, **K^+** and **Ca^{2+}** currents.

In Vitro: Dronedarone (SR-33589) is a multichannel blocker for atrial fibrillation . It is a potent inhibitor of the acetylcholine-activated K^+ current from atrial and sinoatrial nodal tissue, and inhibits the rapid delayed rectifier more potently than slow and inward rectifier K+ currents and inhibits L-type calcium current. Under whole-cell patch clamp, it blocks I_{Kr} (IC_{50}=3 μM) and $I_{Ca\text{-}L}$ (IC_{50}=0.18 μM). The effects on $I_{Ca\text{-}L}$ are use- and frequency-dependent. Dronedarone inhibits current carried by human ether-a-go-go

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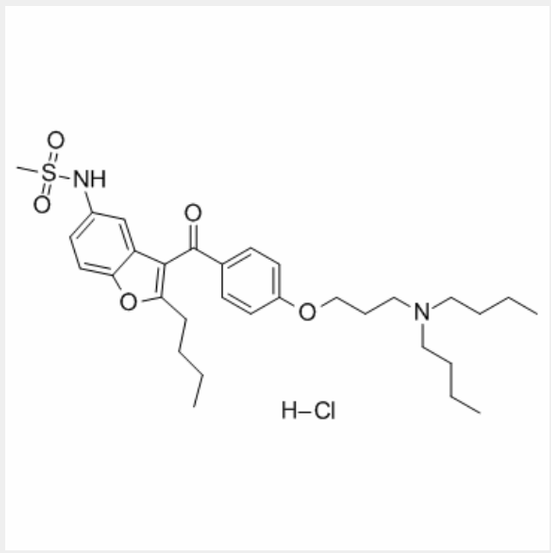
gene (HERG)-expressing oocytes (analagous to I_{Kr}) with an IC_{50} of 9 μM[1]. In guinea pig ventricular myocytes, dronedarone exhibits a state dependent inhibition of the fast Na^+ channel current with an IC_{50} of 0.7±0.1 μM, when the holding potential is −80 mV[2].

In Vivo: Dronedarone (Hydrochloride) reduces significantly the incidence of ventricular fibrillation (VF) from 80 to 30% (p [3]. Dronedarone inhibited carotid artery thrombus formation *in vivo*. Thrombin- and collagen-induced platelet aggregation is impaired indronedarone-treated mice (P\\0.05), and expression ofplasminogen activator inhibitor-1 (PAI1), an inhibitor of the fibrinolytic system, is reduced in the arterial wall[4].



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