

Amiodarone

Catalog No: tcsc2834



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

1951-25-3

Formula:

$C_{25}H_{29}I_2NO_3$

Pathway:

Autophagy;Membrane Transporter/Ion Channel

Target:

Autophagy;Potassium Channel

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

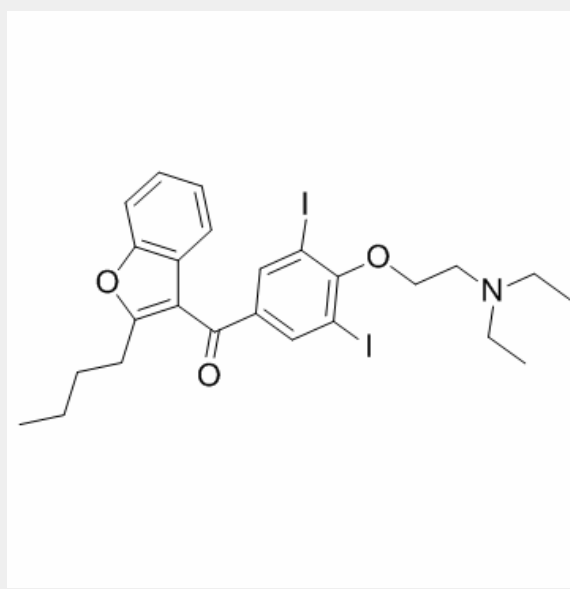
645.31

Product Description

Amiodarone is an antiarrhythmic drug for inhibition of ATP-sensitive potassium channel with IC50 of 19.1 μ M.

Target: Potassium Channel

Amiodarone shows beta blocker-like and potassium channel blocker-like actions on the SA and AV nodes, increases the refractory period via sodium- and potassium-channel effects, and slows intra-cardiac conduction of the cardiac action potential, via sodium-channel effects. Amiodarone (2-butyl, 3-(4-diethylaminoethoxy, 3,5-diiodo, benzoyl) benzofuran hydrochloride), an anti-anginal drug which causes coronary dilatation and depresses myocardial oxygen consumption, was found to protect anaesthetized guinea-pigs against ouabain-induced ventricular fibrillation.² A 5% (73.4 mM) solution of amiodarone had no local anaesthetic action on guinea-pig skin [1]. Amiodarone proved safe in patients with severe congestive heart failure and severe myocardial damage. Its clinical efficacy was related to its electrophysiologic properties and to two unique properties: its wide safety margin and its cumulative effect [2].



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