

Amiodarone (hydrochloride)

Catalog No: tcsc1371

Available Sizes

Size: 1g

Size: 5g

Specifications

CAS No:

19774-82-4

Formula:

C₂₅H₃₀CII₂NO₃

Pathway: Autophagy;Membrane Transporter/Ion Channel

Target:

Autophagy;Potassium Channel

Purity / Grade:

>98%

Solubility: DMSO : 24.5 mg/mL (35.94 mM; Need ultrasonic and warming)

Observed Molecular Weight:

681.77

Product Description

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

IC50 Value: 1.5 uM (inhibit TBARS, LOOH and FPL formation)[1]

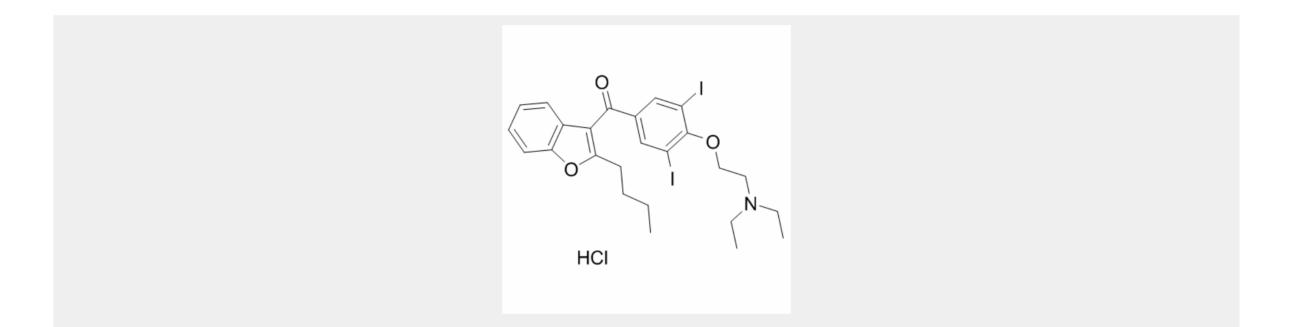
in vitro: It was found that 10 uM amiodarone induces accumulation of ethidium bromide (5 ug/ml) in Saccharomyces cerevisiae cells. At the same time, in yeast cells with inactivated MDR genes, accumulation of ethidium bromide was 6-fold higher even without



amiodarone. Addition of non-lethal concentrations of amiodarone to MDR-deficient cells caused an increase of intracellular ethidium bromide to the level, which was even lower than the level in amiodarone-treated wild-type cells [2]. Cells treated with amiodarone were seen to have detached from the dish, with cell rounding, cytoplasmic blebbing and irregularity in shape. An increase in the sub-G1 phase fraction, from 15.43 to 21.34% and 79.83% and a reduction in the G1 phase fraction, from 48.83 to 41.63% and 11.52%, were observed in cells treated with amiodarone at concentrations of 0.1 and 1 mM, respectively [3].

in vivo: Chronic treatment with oral amiodarone for 4 weeks reduced i.p. when myocytes were dialyzed with patch-pipettes containing either 10 mM Na+ or 80 mM Na+. In myocytes from untreated rabbits, acute exposure to amiodarone in vitro reduced i.p. when patch pipettes contained 10 mM Na+ but had no effect on i.p. at 80 mM Na+. Amiodarone had no effect on the voltage dependence of the pump or the affinity of the pump for extracellular K+ either after chronic treatment or during acute exposure [4].

Clinical trial: Continuous Versus Episodic Amiodarone Treatment for the Prevention of Permanent Atrial Fibrillation . Phase not specified



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