Product Name: Amiodarone hydrochloride
Catalog No.: 4095  Batch No.: 1
CAS Number: 19774-82-4  EC Number: 243-293-2
IUPAC Name: 2-Butyl-3-benzofuranyl-4-[2-(diethylamino)ethoxy]-3,5-diiodophenyl ketone hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{25}H_{29}I_2NO_3 \cdot HCl \)
Batch Molecular Weight: 681.77
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

HPLC: Shows 100% purity
\(^1H\) NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis: Carbon Hydrogen Nitrogen
Theoretical 44.04  4.44  2.05
Found 44.01  4.38  2.06
Product Name: Amiodarone hydrochloride

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EC Number: 243-293-2

IUPAC Name: 2-Butyl-3-benzofuranyl-4-[2-(diethylamino)ethoxy]-3,5-diiodophenyl ketone hydrochloride

Description:
Broad-spectrum ion channel blocker; blocks late I Na, I Ca, I K, and I Ks and increases QT. Displays class III antiarrhythmic properties. Also exhibits fungicidal activity; elicits Ca2+ influx in Saccharomyces cerevisiae and causes mitochondrial fragmentation and cell death. Thought to stimulate autophagy by targeting upstream mTORC1 control pathways. Selectively inhibits proliferation of NSCs in hESC-derived cell populations.

Physical and Chemical Properties:
Batch Molecular Formula: C25H32I2NO8.HCl
Batch Molecular Weight: 681.77
Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:

Storage:
Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:
DMSO to 50 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:


