

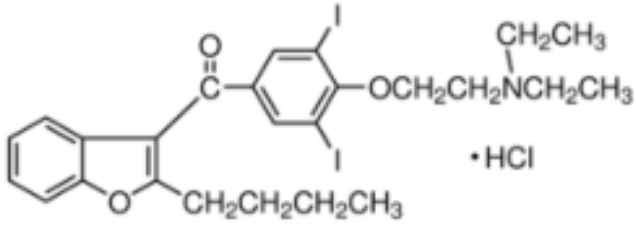
Amiodarone Hydrochloride

SIH-393-1G

Overview

Product Name	Amiodarone Hydrochloride Small Molecule
Unit Size	1g
Description	Autophagy inducer
Purity	>99 %

Technical Data

Alternative Name(s)	2-Butyl-3-benzofuranyl-4-[2-(diethylamino)ethoxy]-3,5-diiodophenyl ketone hydrochloride
Formula	C ₂₅ H ₂₉ I ₂ NO ₃ .HCl
CAS#	19774-82-4
Molecular Weight	681.77
Chemical Structure	
Solubility	Soluble to 50 mM in DMSO
Source	Synthetic
Appearance	White solid
Storage Conditions	4°C; 1 year+
Shipping Temperature	Shipped Ambient
SMILES	[H+].C1=CC=CC2=C1C(=C(O2)CCCC)C(=O)C3=CC(=C(OCCN(CC)CC)C(=C3)I)I.[Cl-]
Research Area(s)	Autophagy

Biological Description

Function	<p>Amiodarone is a non-selective ion channel blocker. It has been found, when used in <i>Saccharomyces cerevisiae</i>, to induce an influx of Ca²⁺ followed by mitochondrial fragmentation and subsequent cell death. Amiodarone has also been shown to induce autophagy by inhibiting mTORC1. Lastly, Amiodarone has broad-spectrum fungicidal activity.</p> <ol style="list-style-type: none">Zhang Y., et al. (2007). <i>J Biol Chem.</i> 282(52): 37844-53.Balgi A., et al. (2009). <i>PLoS One.</i> 4(9): e7124.
Product Citations	PubMed ID: N/A

Material Safety Data Sheet

Amiodarone Hydrochloride SIH-393-1G

This product is for *in vitro* research use only and is not intended for use in humans or animals

The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

Regulatory Information

Classification: D1B- Toxic Material Causing Immediate and Serious, Toxic Effects, Toxic by inhalation.

Safety Phrases:

S22 - Do not breathe dust.

S24/25 - Avoid contact with skin and eyes.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Hazard statements:

H303- May be harmful if swallowed.

H312 + H332- Harmful in contact with skin or if inhaled

Precautionary statements:

P280- Wear protective gloves/ protective clothing.

Physical Data

This product consists of powder, shipped at ambient temperatures. The physical properties of this product have not been investigated thoroughly. CAS Number: 19774-82-4

Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.