

Certificate of Analysis

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Product Name: Dofetilide

Catalog No.: 3757

Batch No.: 1

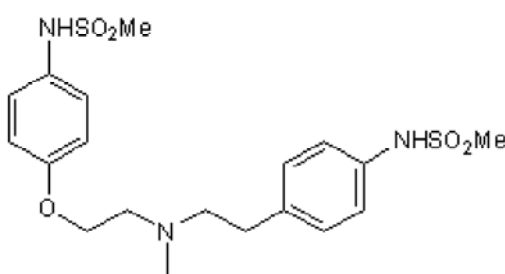
CAS Number: 115256-11-6

EC Number: 638-817-5

IUPAC Name: 1-(4-Methanesulphonamidophenoxy)-2-[N-(4-methanesulphonamidophenethyl)-N-methylamino]ethane

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₇N₃O₅S₂
Batch Molecular Weight: 441.56
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	51.68	6.16	9.52
Found	51.73	6.25	9.46

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Selective potassium channel blocker. Blocks $K_{v11.1}$ (hERG) channels; inhibits the rapid delayed-rectifier K^+ current (I_{Kr}). Displays class III antiarrhythmic properties.

Physical and Chemical Properties:

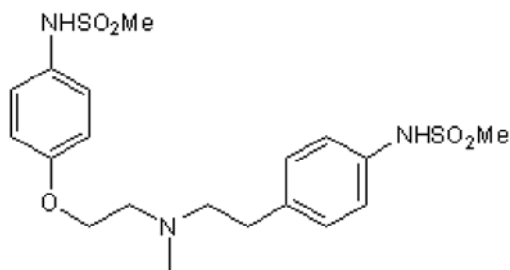
Batch Molecular Formula: $C_{19}H_{27}N_3O_5S_2$

Batch Molecular Weight: 441.56

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 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.

Licensing Information:

Sold for research purposes under agreement from Pfizer Inc.

References:

Finlayson et al (2001) [3H]Dofetilide binding in SHSY5Y and HEK293 cells expressing a HERG-like K^+ channel. *Eur.J.Pharmacol.* **412** 203. PMID: 11166283.

Carmeliet (1992) Voltage- and time-dependent block of delayed K^+ current in cardiac myocytes by dofet. *J.Pharmacol.Exp.Ther.* **262** 809. PMID: 1501123.

Gwilt et al (1991) UK-68,798: a novel, potent and highly selective class III antiarrhythmic agent which blocks potassium channels in cardiac cells. *J.Pharmacol.Exp.Ther.* **256** 318. PMID: 1988662.

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