



Catalog # 10-1151

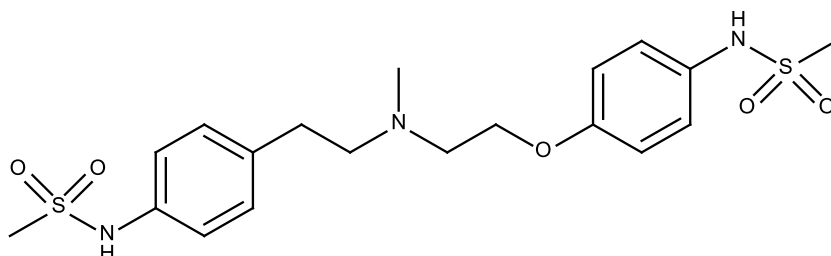
Dofetilide

CAS# 115256-11-6

N-[4-(2-{[2-(4-Methanesulfonamidophenoxy)ethyl](methyl)amino}ethyl)phenyl]methanesulfonamide;

Tikosyn

Lot # X101037



Dofetilide is a clinically useful class III antiarrhythmic that inhibits the rapid component of the delayed rectifier outward potassium current (I_{Kr}) via selective blockage of the Kv11.1 (hERG) channel.^{1,2}

- 1) 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
- 2) Snyders and Chaudhary, (1996) *High affinity open channel block by dofetilide of HERG expressed in a human cell line*; Mol.Pharmacol. **49** 949

PHYSICAL DATA

Molecular Weight:	441.56
Molecular Formula:	C ₁₉ H ₂₇ N ₃ O ₅ S ₂
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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