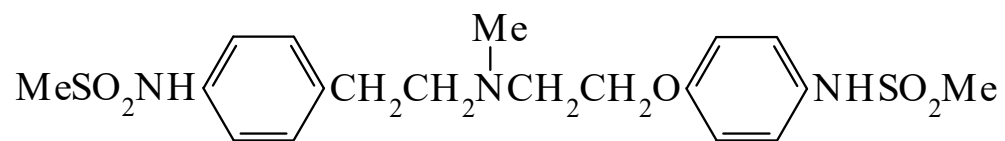




>>Entry Name: Dofetilide, BAN, INN, USAN

Synonym(s): *N*-[4-[2-[Methyl[2-[4-[(methylsulfonyl)amino]phenoxy]ethyl]amino]ethyl]phenyl]methanesulfonamide, 9Cl. Tikosyn. UK 68798



CAS Registry Number: 115256-11-6

Type of Compound Code(s): XA5980 XA1050

Molecular Formula: C₁₉H₂₇N₃O₅S₂

Molecular Weight: 441.571

Accurate Mass: 441.139212

Percentage Composition: C 51.68%; H 6.16%; N 9.52%; O 18.12%; S 14.52%

Biological Use/Importance: Potassium channel (K_{VR}) blocker. Antiarrhythmic (Class III) agent

Physical Description: Cryst. (EtOAc/petrol)

Development Status: Approved by FDA (1999). Approved for clinical use in the EU (1999)

Melting Point: Mp 147-149°

Calculated Log P Data: Log P 1.66 (calc)

References:

- Tande, P.M. *et al.*, *J. Cardiovasc. Pharmacol.*, 1990, **16**, 401, (*pharmacol*)
Cross, P.E. *et al.*, *J. Med. Chem.*, 1990, **33**, 1151, (*synth*)
Walker, D.K. *et al.*, *J. Chromatogr.*, 1991, **568**, 475, (*hplc*)
Sedgwick, M.L. *et al.*, *Am. J. Cardiol.*, 1992, **69**, 513, (*pharmacol, human*)
Black, S.C. *et al.*, *Cardiovasc. Drug Rev.*, 1992, **10**, 170, (*rev*)
Gwilt, M. *et al.*, *Eur. J. Pharmacol.*, 1992, **215**, 137, (*pharmacol*)
Rasmussen, H.S., *J. Cardiovasc. Pharmacol.*, (Suppl. 2), 1992, **20**, S96, (*rev*)
Smith, D.A. *et al.*, *Xenobiotica*, 1992, **22**, 709, (*pharmacokinet, metab*)
Tham, T.C. *et al.*, *J. Cardiovasc. Pharmacol.*, 1993, **21**, 507, (*pharmacokinet, human*)
Crijns, H.J.G.M. *et al.*, *Eur. Heart J.*, 1994, **15**, 1403, (*clin trial*)