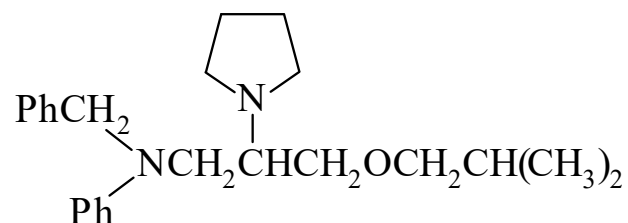




>>Entry Name: Bepridil, BAN, INN

Synonym(s): β -[(2-Methylpropoxy)methyl]-N-phenyl-N-(phenylmethyl)-1-pyrrolidineethanamine, 9Cl. 1-[2-(N-Benzylanilino)-1-(isobutoxymethyl)ethyl]pyrrolidine. N-Benzyl-N-(3-isobutoxy-2-pyrrolidin-1-ylpropyl)aniline



CAS Registry Number: 64706-54-3

Related CAS Registry Numbers(s): 49571-04-2 64616-81-5 74764-75-3 110143-74-3 110143-75-4

Molecular Formula: C₂₄H₃₄N₂O

Molecular Weight: 366.545

Accurate Mass: 366.267113

Percentage Composition: C 78.64%; H 9.35%; N 7.64%; O 4.36%

Use/Importance: Calcium antagonist, antianginal agent, coronary vasodilator, also shows antiarrhythmic activity

pK_a Value: pK_a 7.92

Calculated Log P Data: Log P 6.04 (uncertain value) (calc)

Other Data: Enantiomers known, possess similar pharmacol props.

>>Variant: (±)-form

CAS Registry Number: 89035-90-5

Molecular Formula: C₂₄H₃₄N₂O

Molecular Weight: 366.545

Accurate Mass: 366.267113

Percentage Composition: C 78.64%; H 9.35%; N 7.64%; O 4.36%

Physical Description: Viscous liq.

Boiling Point: Bp_{0.1} 184°

Refractive Index: n_D²⁰ 1.5538

>>Derivative: Hydrochloride

Synonym(s): Bepridil hydrochloride, USAN. Angropril. Bepadin. Brepricor. Cardiocal. Cordium. Cruor. Vascor. CERM 1978. Org 5730

CAS Registry Number: 74764-40-2

Physical Description: Monohydrate

Melting Point: Mp 91°

Hazard & Toxicity: LD₅₀ (mus, orl) 1955 mg/kg. LD₅₀ (mus, ivn) 23.5 mg/kg

Sigma: B5016

References:

- Ger. Pat., 1978, CERM, 2 802 864; CA, **89**, 179852s, (synth)
Vogel, S. et al., J. Pharmacol. Exp. Ther., 1978, **210**, 378, (pharmacol)
Declercq, J.P. et al., Bull. Soc. Chim. Belg., 1984, **93**, 235, (cryst struct)
Marshall, R.J. et al., New Drugs Annu.: Cardiovasc. Drugs, 1984, **2**, 157, (rev)
Schwartz, A. et al., Am. J. Cardiol., 1985, **55**, 3; 8; 59, (pharmacol, metab)
Alpert, J.S. et al., Pharmatherapeutica, 1985, **4**, 195, (rev)
Hasegawa, G.R., Clin. Pharm., 1988, **7**, 97, (rev)
Wu, W.N. et al., Drug Metab. Dispos., 1988, **16**, 69, (metab)
Maris, F.A. et al., J. Chromatogr., 1991, **547**, 45, (hplc)
Gill, A. et al., Am. J. Cardiol., 1992, **69**, 11D, (rev)
Hollingshead, L.M. et al., Drugs, 1992, **44**, 835, (rev)
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 1019