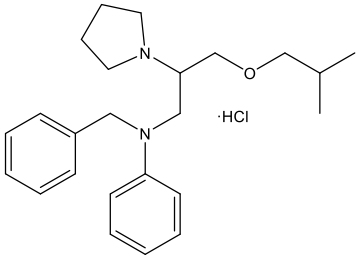
Catalog # 10-4958

Bepridil HCl

CAS# 74764-40-2

N-Benzyl-N-[3-(2-methylpropoxy)-2-pyrrolidin-1-ylpropyl]aniline hydrochloride

Lot # FBS



Bepridil is a clinically useful calcium channel blocker with antianginal activity.[1] It has recently been shown to possess potent activity against SARS-CoV-2 in vitro.[2] Bepridil was also able to provide protection from Ebola virus[3] and other filoviruses in a mouse model[4]. Blocker of the Na^+/Ca^{2+} exchanger (NCX).[5]

1) Hollingshead *et al*. (1992), *Bepridil. A review of its pharmacological properties and therapeutic use in stable angina pectoris*; Drugs, **44** 835
2) Vatansever *et al*. (2021), *Bepridil is potent against SARS-CoV-2 in vitro*; Proc. Natl. Acad. Sci USA, **118** e2012201118
3) Johansen *et al*. (2015), *A screen of approved drugs and molecular probes identifies therapeutics with anti-Ebola virus activity*; Sci. Transl. Med., **7** 290ra89
4) DeWald *et al*. (2018), *The calcium channel blocker bepridil demonstrates efficacy in the murine model of marburg virus disease*; J. Infect. Dis., **218**(suppl 5) S588
5) Wantanabe and Kimura (2001), *Blocking effect of bepridil on Na^+/Ca^{2+} exchange current in guinea pig cardiac ventricular myocytes;* Jpn. J. Pharmacol. **85** 370

PHYSICAL DATA

Molecular Weight:	403.00
Molecular Formula:	$C_{24}H_{34}N_2O \cdot HCl$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml) or Ethanol (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 or ethanol may be stored at -20°C for up to 1 month.

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