

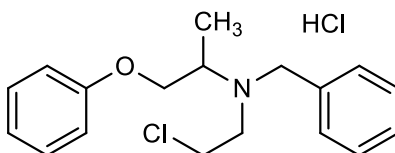


Catalog # 10-1237
Phenoxybenzamine HCl

63-92-3

N-(2-Chloroethyl)-N-(1-methyl-2-phenoxyethyl)benzylamine hydrochloride

Lot # X101533



Binds to and inhibits calmodulin in a calcium-dependent and irreversible manner (IC_{50} = ca. $1 \mu M$)¹. A classical irreversible α adrenergic antagonist². A useful tool for irreversible inhibition of calmodulin. Cell permeable.

- 1) Earl *et al.* (1984), *Interaction of alpha adrenergic antagonists with calmodulin*; Life Sci., **355** 525
- 2) Frang *et al.* (2001), *Phenoxybenzamine binding reveals the helical orientation of the third transmembrane domain of adrenergic receptors*; J. Biol. Chem., **276** 31279
- 3) James *et al.* (2009), *Inhibition of nitric oxide-activated guanylylcyclase by calmodulin antagonists*; Br. J. Pharmacol., **158** 1454

PHYSICAL DATA

Molecular Weight:	340.29
Molecular Formula:	$C_{18}H_{22}ClNO \cdot HCl$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml), Water (15 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 2 years from the date of purchase. Solutions in DMSO or distilled water may be stored at $-20^{\circ}C$ for up to 3 months.

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