



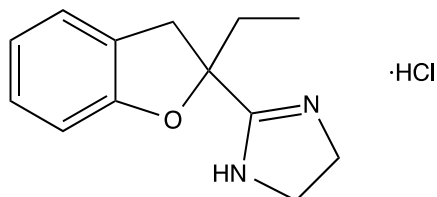
Catalog # 10-1342

Efaroxan HCl

CAS# 89197-00-2

2-Ethyl-2-(imidazolin-2-yl)-2,3-dihydrobenzofuran, hydrochloride; RX 821037A

Lot # X101219



Selective α_2 -adrenergic receptor antagonist¹ (selectivity ratio of $\alpha_2/\alpha_1 = 724$)⁴ and imidazoline receptor antagonist². Induces release of insulin in the rat insulinoma cell line RIN-5AH by interaction with ATP-sensitive potassium channels independently from imidazoline I₁ or I₂ receptors.³ Increases resting plasma insulin levels and markedly potentiates the rise in insulin levels produced by adrenaline in the rat.⁴

- 1) Chapleo *et al.* (1984), *alpha-Adrenoceptor reagents. 2. Effects of modification of the 1,4-benzodioxan ring system on alpha-adrenoceptor activity*; J.Med.Chem., **27** 570
- 2) Eglen *et al.* (1998), 'Seeing through a glass darkly': casting light on imidazoline 'I' sites; Trends Pharmacol.Sci. **19** 381
- 3) Olmos *et al.* (1994), *Imidazolines stimulate release of insulin from RIN-5AH cells independently from imidazoline I₁ and I₂ receptors*; Eur.J.Pharmacol. **262** 41
- 4) Berridge *et al.* (1992), *Comparison of the effects of efaroxan and glibenclamide on plasma glucose and insulin levels in rats*; Eur.J.Pharmacol. **213** 205

PHYSICAL DATA

Molecular Weight: 252.74
Molecular Formula: C₁₃H₁₆N₂O·HCl
Purity: >98% by TLC
NMR: (Conforms)
Solubility: Water (25 mg/ml)
Physical Description: White solid
Storage and Stability: Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in water may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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