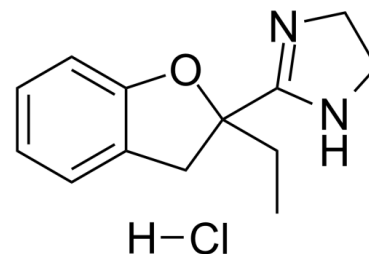


Data Sheet

Product Name:	Efaroxan (hydrochloride)
Cat. No.:	CS-0013561
CAS No.:	89197-00-2
Molecular Formula:	C ₁₃ H ₁₇ ClN ₂ O
Molecular Weight:	252.74
Target:	Adrenergic Receptor; Imidazoline Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Solubility:	DMSO : 50 mg/mL (197.83 mM; ultrasonic and warming and heat to 60°C)



BIOLOGICAL ACTIVITY:

Efaroxan hydrochloride is a potent, selective and orally active **α2-adrenoceptor** antagonist, with antidiabetic activity. Efaroxan hydrochloride is a selective **l1-imidazoline receptor** antagonist. Efaroxan hydrochloride can be used for the research of cardiovascular disease^{[1][2][3]}. IC₅₀ & Target: α2-adrenoceptor, l1-imidazoline receptor^{[1][2]} **In Vitro:** Efaroxan hydrochloride binds to l1-imidazoline and α2-adrenergic receptors in bovine rostral ventrolateral medulla membranes, with K_ds of 0.15 nM and 5.6 nM, respectively^[1] **In Vivo:** Efaroxan hydrochloride increases plasma insulin levels in both conscious fed and fasted rats without greatly affecting plasma glucose levels^[3].

References:

- [1]. T L Berridge, et al. Selectivity profile of the alpha 2-adrenoceptor antagonist efaroxan in relation to plasma glucose and insulin levels in the rat. *Eur J Pharmacol.* 1992 Mar 24;213(2):205-12.
- [2]. A O Abdel-Zaher, et al. The potential antidiabetic activity of some alpha-2 adrenoceptor antagonists. *Pharmacol Res.* 2001 Nov;44(5):397-409.
- [3]. T L Berridge, et al. Comparison of the effects of efaroxan and glibenclamide on plasma glucose and insulin levels in rats. *Eur J Pharmacol.* 1992 Mar 24;213(2):213-8.

CAIndexNames:

1H-Imidazole, 2-(2-ethyl-2,3-dihydro-2-benzofuranyl)-4,5-dihydro-, hydrochloride (1:1)

SMILES:

CCC1(C2=NCCN2)OC3=CC=CC=C3C1.[H]Cl

Caution: Product has not been fully validated for medical applications. For research use only.

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