



Product Information

Product ID E2002

CAS No. 89197-00-2

Chemical Name

Synonym

Formula $C_{13}H_{16}N_2O \cdot HCl$

Formula Wt. 252.74

Melting Point $250^{\circ}C$

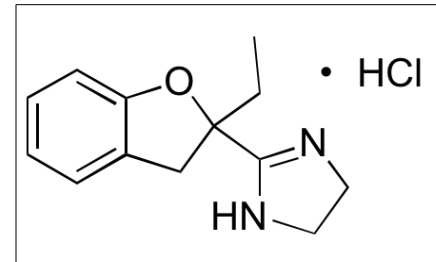
Purity $\geq 99\%$

Solubility Soluble to 100 mM in water

Store Temp Ambient

Ship Temp Ambient

Description Efaroxan hydrochloride is an antagonist at α_2 -adrenergic receptors and imidazoline-1 receptors. Efaroxan hydrochloride administration in animal models of opioid use shows a potential role for α_2 -adrenergic receptors in opioid-mediated mechanisms of tolerance and antinociception. This compound also exhibits antihyperglycemic activity, improving oral glucose tolerance in animal models of diabetes due to its ability to inhibit K(ATP) K^+ channels on pancreatic beta cells. Additionally, administration of efaroxan hydrochloride shows benefit in animal models of Parkinson's Disease.



Bulk quantities available upon request

Product ID	Size
E2002	25 mg
E2002	100 mg
E2002	250 mg

References Milne B, Jhamandas K, Sutak M, et al. Stereo-selective inhibition of spinal morphine tolerance and hyperalgesia by an ultra-low dose of the alpha-2-adrenoceptor antagonist efaroxan. *Eur J Pharmacol.* 2013 Feb 28;702(1-3):227-34. PMID: 23376415.

Lehner Z, Stadlbauer K, Adorjan I, et al. Mechanisms of antihyperglycaemic action of efaroxan in mice: time for reappraisal of α_2A -adrenergic antagonism in the treatment of type 2 diabetes? *Diabetologia.* 2012 Nov;55(11):3071-82. PMID: 22898767.

Le Brigand L, Virsolvy A, Manechez D, et al. In vitro mechanism of action on insulin release of S-22068, a new putative antidiabetic compound. *Br J Pharmacol.* 1999 Nov;128(5):1021-6. PMID: 10556939.

Chopin P, Colpaert FC, Marien M. Effects of alpha-2 adrenoceptor agonists and antagonists on circling behavior in rats with unilateral 6-hydroxydopamine lesions of the nigrostriatal pathway. *J. Pharmacol. Exp. Ther.* 1999. 288 (2): 798-804. PMID 9918591.

Chan SL, Dunne MJ, Stillings MR, et al. The alpha 2-adrenoceptor antagonist efaroxan modulates K^+ ATP channels in insulin-secreting cells. *Eur J Pharmacol.* 1991 Oct 29;204(1):41-8. PMID: 1687123.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.