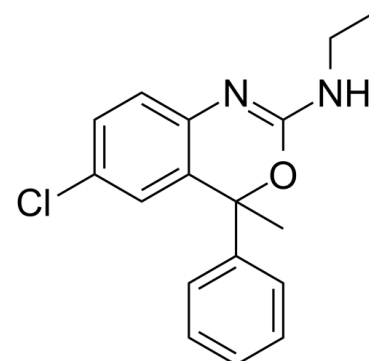


Data Sheet

Product Name:	Etifoxine
Cat. No.:	CS-1104
CAS No.:	21715-46-8
Molecular Formula:	C ₁₇ H ₁₇ ClN ₂ O
Molecular Weight:	300.78
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Solubility:	DMSO : 100 mg/mL (332.47 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Etifoxine (HOE 36-801) is a potentiator of GABA_A receptor function in cultured neurons. Etifoxine preferentially acts on $\beta 2$ or $\beta 3$ subunit-containing GABA_A receptors. IC₅₀ value: Target: GABA_A receptor. Etifoxine exhibits anxiolytic activity in rodents and humans with no sedative, myorelaxant or mnesic side effects. Etifoxine acts as a ligand of the translocator protein (TSPO); promotes axonal regeneration.

References:

- [1]. Verleye M, Dumas S, Heulard I, et al. Differential effects of etifoxine on anxiety-like behaviour and convulsions in BALB/cByJ and C57BL/6J mice: any relation to overexpression of central GABA_A receptor beta2 subunits? *Eur Neuropsychopharmacol.* 2011 Jun;21(6):457-70.
- [2]. Bourin M, Hascot M. Implication of 5-HT₂ receptor subtypes in the mechanism of action of the GABAergic compound etifoxine in the four-plate test in Swiss mice. *Behav Brain Res.* 2010 Apr 2;208(2):352-8.
- [3]. Gee KW, Tran MB, Hogenkamp DJ, et al. Limiting activity at beta1-subunit-containing GABA_A receptor subtypes reduces ataxia. *J Pharmacol Exp Ther.* 2010 Mar;332(3):1040-53.
- [4]. Aouad M, Charlet A, Rodeau JL, et al. Reduction and prevention of vincristine-induced neuropathic pain symptoms by the non-benzodiazepine anxiolytic etifoxine are mediated by β 3-reduced neurosteroids. *Pain.* 2009 Dec 15;147(1-3):54-9.
- [5]. Girard C, Liu S, Cadepond F, et al. Etifoxine improves peripheral nerve regeneration and functional recovery. *Proc Natl Acad Sci U S A.* 2008 Dec 23;105(51):20505-10.

CAIndexNames:

4H-3,1-Benzoxazin-2-amine, 6-chloro-N-ethyl-4-methyl-4-phenyl-

SMILES:

C1=CC=C2C(C(C3=CC=CC=C3)C)OC(NCC)=N2=C1

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

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA