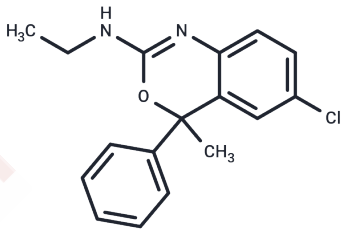
Data Sheet (Cat.No.T13691)

TargetMol

Etifoxine

Chemical Properties



CAS No. : 21715-46-8

Formula: C17H17ClN2O

Molecular Weight: 300.78

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Etifoxine preferentially acts on β2 or β3 subunit-containing GABAA receptors. GABAA 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. Etifoxine(HOE 36-801) is potentiator of GABAA receptor function in cultured neurons.
Targets(IC50)	Others,GABA Receptor

Solubility Information

Solubility	DMSO: 100 mg/mL (332.47 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (10.97 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3247 mL	16.6234 mL	33.2469 mL
5 mM	0.6649 mL	3.3247 mL	6.6494 mL
10 mM	0.3325 mL	1.6623 mL	3.3247 mL
50 mM	0.0665 mL	0.3325 mL	0.6649 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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 GABAA receptor beta2 subunits? Eur Neuropsychopharmacol. 2011 Jun;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.

Gee KW, Tran MB, Hogenkamp DJ, et al. Limiting activity at beta1-subunit-containing GABAA receptor subtypes reduces ataxia. J Pharmacol Exp Ther. 2010 Mar;332(3):1040-53.

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 3alpha-reduced neurosteroids. Pain. 2009 Dec 15; 147(1-3):54-9.

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.