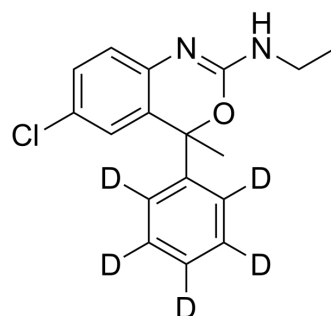


Etifoxine-d₅

Cat. No.:	HY-16579AS2
CAS No.:	1346598-10-4
Molecular Formula:	C ₁₇ H ₁₂ D ₅ ClN ₂ O
Molecular Weight:	305.81
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Etifoxine-d ₅ is the deuterium labeled Etifoxine. Etifoxine, a non-benzodiazepine GABAergic compound, is a positive allosteric modulator of $\alpha 1\beta 2\gamma 2$ and $\alpha 1\beta 3\gamma 2$ subunit-containing GABAA receptors. Etifoxine reveals anxiolytic and anticonvulsant properties in rodents[1][2][3].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Marc Verleye, et al. Effects of etifoxine on ligand binding to GABA(A) receptors in rodents. *Neurosci Res.* 2002 Oct;44(2):167-72.
- [3]. Alain Hamon, et al. The modulatory effects of the anxiolytic etifoxine on GABA(A) receptors are mediated by the beta subunit. *Neuropharmacology.* 2003 Sep;45(3):293-303.
- [4]. Marc Verleye, 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;21(6):457-70.

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

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