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Zuschläge

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- Trockeneiszuschlag
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- Expressversand

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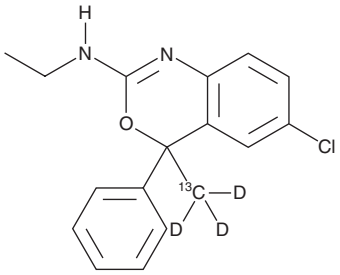
PRODUCT INFORMATION

Etifoxine-^{13}C-d$_3$

Item No. 30235

Formal Name:	6-chloro-N-ethyl-4-methyl-^{13}C-d$_3$-4-phenyl-4H-3,1-benzoxazin-2-amine
MF:	$C_{16}[^{13}C]H_{14}D_3ClN_2O$
FW:	304.8
Chemical Purity:	≥98% (Etifoxine)
Deuterium Incorporation:	≥99% deuterated forms (d$_1$-d$_3$); ≤1% d$_0$
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Etifoxine-^{13}C-d$_3$ is intended for use as an internal standard for the quantification of etifoxine (Item No. 15999) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Etifoxine-^{13}C-d$_3$ is supplied as a solid. A stock solution may be made by dissolving the etifoxine-^{13}C-d$_3$ in the solvent of choice, which should be purged with an inert gas. Etifoxine-^{13}C-d$_3$ is soluble in acetonitrile.

Description

Etifoxine is a positive allosteric modulator of $\alpha_1\beta_2\gamma_2$ and $\alpha_1\beta_3\gamma_2$ subunit-containing GABA$_A$ receptors.[1] It selectively increases GABA-induced currents in *X. laevis* oocytes expressing $\alpha_1\beta_2\gamma_2$ or $\alpha_1\beta_3\gamma_2$ over $\alpha_1\beta_1\gamma_2$ subunit-containing receptors at 20 µM. Etifoxine inhibits binding of the GABA$_A$ receptor agonist muscimol in rat corticol membranes with a K$_d$ value of 23 nM in a radioligand binding assay.[2] It increases NGF-induced neurite outgrowth in PC12 cells when used at a concentration of 20 µM.[3] Etifoxine (12.5 mg/kg, i.p.) increases the percentage of time spent in the open arms of the elevated plus maze in high-anxiety BALB/cByJ, but not C57BL/6, mice, indicating anxiolytic-like activity.[4] It increases the seizure threshold in a mouse model of seizures induced by picrotoxin (Item No. 20771) with a minimum effective dose (MED) of 75 mg/kg.[2] Etifoxine (50 mg/kg, i.p.) also increases the paw withdrawal threshold on the ipsilateral side in a rat model of rheumatoid arthritis induced by complete Freund's adjuvant.[5]

References

1. Hamon, A., Morel, A., Hue, B., *et al. Neuropharmacology* **45(3)**, 293-303 (2003).
2. Verleye, M., Pansart, Y., and Gillardin, J. *Neurosci. Res.* **44(2)**, 167-172 (2002).
3. Girard, C., Liu, S., Cadepond, F., *et al. Proc. Natl. Acad. Sci. USA* **105(51)**, 20505-20510 (2008).
4. Verleye, M., Dumas, S., Heulard, I., *et al. Eur. Neuropsychopharmacol.* **21(6)**, 457-470 (2011).
5. Aouad, M., Zell, V., Juif, P.E., *et al. Pain* **155(2)**, 403-412 (2014).

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