Etoxadrol

Cat. No.: HY-107040

CAS No.: 28189-85-7

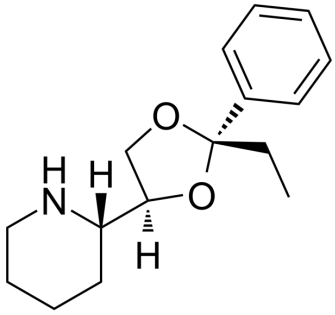
Molecular Formula: $C_{16}H_{23}NO_2$

Molecular Weight: 261.36

Target: Others

Pathway: Others

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Etoxadrol (CL-1848C) is a potent N-methyl-D-aspartic acid (NMDA) antagonist with high affinity. Etoxadrol can be used for anaesthetic research[1].

IC_{50} & Target

NMDA[1]

In Vivo

Etoxadrol (CL-1848C) (100.0 mg/kg; i.h.; once) produces marked stimulation and ataxia in mice[2].
Etoxadrol (0-20 mg/kg; i.v.; once) decreases brain monoamine concentrations after 4 h injection[3].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Carworth-Farm (Upjohn) male mice weighing 18 to 20 gm[2]
Dosage:	100.0 mg/kg
Administration:	Subcutaneous injection, 30 min
Result:	Produced marked stimulation and ataxia.

Animal Model:	Male CFE rats weighing 110-175 g (average 130 g)[3]
Dosage:	5, 10, and 20 mg/kg
Administration:	Intravenous injection, once
Result:	Significantly lowered brain serotonin, DA (dopamine), and NE (norepinephrine) concentrations at 4 h.

REFERENCES

[1]. Y F Sung, et al. Effects of intravenous anesthetics on brain monoamines in the rat. Anesthesiology. 1973 Nov;39(5):478-87.

[2]. A Thurkauf, et al. Synthesis, absolute configuration, and molecular modeling study of etoxadrol, a potent phencyclidine-like agonist. J Med Chem. 1988 Dec;31(12):2257-63.

[3]. A H Tang, et al. Analgetic activities of etoxadrol in the rhesus monkey and in mice. Anesth Analg. 1973 Jul-Aug;52(4):577-83.

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