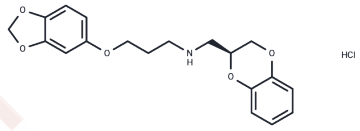
Data Sheet (Cat.No.T28270)

TargetMol

Osemozotan HCl

Chemical Properties



CAS No. : 137275-80-0

Formula: C19H22ClNO5

Molecular Weight: 379.84

Storage: Keep away from moisture
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	Osemozotan HCl (Osemozotan hydrochloride) is a novel and selective 5-HT1A receptor agonist that reduces methamphetamine-induced c-Fos expression in the medial prefrontal cortex and striatum.Osemozotan HCl is used in the study of mechanical abnormalities of pain and depression.
Targets(IC50)	5-HT Receptor
In vivo	Oxymorphone hydrochloride (1 mg/kg; i.v.; once) reduced the number of MAMP-induced c-Fos-positive cells [2]. Oxymorphone hydrochloride (1 mg/kg; i.v.; 20 min after microtoxin treatment) ameliorated the decrease in female preference induced by the combination of microtoxin and (+)-SKF-10,047 [5].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6327 mL	13.1634 mL	26.3269 mL
5 mM	0.5265 mL	2.6327 mL	5.2654 mL
10 mM	0.2633 mL	1.3163 mL	2.6327 mL
50 mM	0.0527 mL	0.2633 mL	0.5265 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

Matsuda T,et al.Neuropharmacologic studies on the brain serotonin1A receptor using the selective agonist osemozotan. Biol Pharm Bull. 2013;36(12):1871-82. Review.

Tsuchida R, et al.Inhibitory effects of osemozotan, a serotonin 1A-receptor agonist, on methamphetamine-induced c-Fos expression in prefrontal cortical neurons. Biol Pharm Bull. 2009 Apr;32(4):728-31.

Tsuchida R, et al. Baba A. An antihyperkinetic action by the serotonin 1A-receptor agonist osemozotan co-administered with psychostimulants or the non-stimulant atomoxetine in mice. J Pharmacol Sci. 2009 Mar;109(3): 396-402. Epub 2009 Mar 7.

Ago Y,et al. Effects of osemozotan, ritanserin and azasetron on cocaine-induced behavioral sensitization in mice. Pharmacol Biochem Behav. 2006 Sep;85(1):198-205. Epub 2006 Sep 8.

Hasebe S, et al. Anti-anhedonic effect of selective serotonin reuptake inhibitors with affinity for sigma-1 receptors in picrotoxin-treated mice. Br J Pharmacol. 2017 Feb;174(4):314-327.