Data Sheet (Cat.No.T27186)

TargetMol

Divaplon

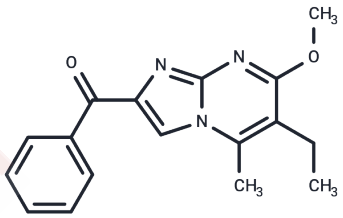
Chemical Properties

CAS No. : 90808-12-1

Formula: C17H17N3O2

Molecular Weight: 295.34

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	Divaplon is a GABA receptor agonist (IC50: 0.056 μM) that exhibits non-sedating anxiolytic properties in a rat model of anxiety.
Targets(IC50)	GABA Receptor
In vivo	Divaplon (1-60 mg/kg; injection; mice) clearly produced effects on the acquisition of conditioned fear. As the drug has been shown to produce anticonvulsant and anxiolytic-like effects without sedation or depression of motor activity. The results show that BZ (omega) receptor partial agonists without apparent sedative actions can disrupt fear learning, indicating that the effects of this class of drugs on passive avoidance learning can be dissociated from sedation.[4]

Solubility Information

Solubility	DMSO: 50 mg/mL (169.3 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3859 mL	16.9296 mL	33.8593 mL
5 mM	0.6772 mL	3.3859 mL	6.7719 mL
10 mM	0.3386 mL	1.693 mL	3.3859 mL
50 mM	0.0677 mL	0.3386 mL	0.6772 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

Feely M, et al. Lack of anticonvulsant tolerance with RU 32698 and Ro 17-1812. Eur J Pharmacol. 1989;164(2):377-380.

Pellón R, et al. Pharmacological analysis of the effects of benzodiazepines on punished schedule-induced polydipsia in rats. Behav Pharmacol. 2007;18(1):81-87.

Knoflach F, et al. Full and partial agonism displayed by benzodiazepine receptor ligands at recombinant gamma-aminobutyric acidA receptor subtypes. J Pharmacol Exp Ther. 1993;266(1):385-391.

Sanger DJ, et al. Benzodiazepine (omega) receptor partial agonists and the acquisition of conditioned fear in mice. Psychopharmacology (Berl). 1995;121(1):104-108.

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