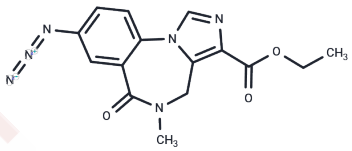
Data Sheet (Cat.No.T16775)

TargetMol

Ro15-4513

Chemical Properties



CAS No. : 91917-65-6

Formula: C15H14N6O3

Molecular Weight: 326.31

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Ro15-4513 is imidazobenzodiazepinone derivative and is a partial inverse agonist of benzodiazepine receptors. Ro15-4513 is an effective ethanol antagonist.
Targets(IC50)	Others
In vitro	Ro15-4513 typically functions as a partial inverse agonist at GABAA receptors [3].
In vivo	Ro 15-4513 (i.p.; 3 mg/kg; 15 min before administration of 1.5 g/kg ethanol) reverses ethanol-induced sedation in GABAA receptor δ subunit-deficient mice. Ro 15-4513 (i.p.; 3 mg/kg; 10 min before being tested) fully inhibits the ethanol-induced (1.8 g/kg) reduction in total locomotor activity and partly the reduction in rearing [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0646 mL	15.3229 mL	30.6457 mL
5 mM	0.6129 mL	3.0646 mL	6.1291 mL
10 mM	0.3065 mL	1.5323 mL	3.0646 mL
50 mM	0.0613 mL	0.3065 mL	0.6129 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.

Reference

Bonetti EP, et al. Ro 15-4513: partial inverse agonism at the BZR and interaction with ethanol. Pharmacol Biochem Behav. 1988 Nov;31(3):733-49.

Suzdak PD, et al. Effects of Ro15-4513 and other benzodiazepine receptor inverse agonists on alcohol-inducedintoxication in the rat. J Pharmacol Exp Ther. 1988 Jun;245(3):880-6.

Linden AM, et al. Ro 15-4513 Antagonizes Alcohol-Induced Sedation in Mice Through αβγ2-type GABA(A) Receptors. Front Neurosci. 2011 Jan 20;5:3.

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