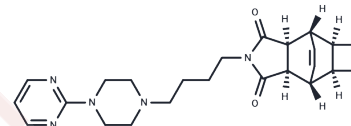


Zalospirone

Chemical Properties

CAS No. : 114298-18-9
 Formula: C₂₄H₂₉N₅O₂
 Molecular Weight: 419.52
 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	Zalospirone is a 5-HT _{1A} receptor agonist that can be used to study anxiety disorders and major depressive disorder.
Targets(IC ₅₀)	5-HT Receptor
In vivo	We report here the results of an antidepressant trial with zalospirone, a novel cyclic imide with 5-HT _{1A} partial agonist activity. Two hundred eighty-seven outpatients (mean age 44 years, 55% men, 45% nonfertile women) who met the criteria for unipolar major depression with a minimum 21-item Hamilton Rating Scale for Depression (HAM-D) score of 20 were randomly assigned to receive 6 weeks of double-blind treatment with either placebo or one of three fixed doses of zalospirone (6, 15, or 45 mg/day), administered three times daily. The high dose (45 mg) of zalospirone produced a significant antidepressant effect compared with the placebo from week 2 with mean improvement (change from baseline) in HAM-D total score of 12.8 versus 8.4 ($p < 0.05$) at week 6. Clinical improvement with the high dose of zalospirone was consistent across all outcome measures, however, only in the observed cases and not the last-observation-carried-forward analyses. Improvement with the 6-mg or 15-mg doses was greater than that with placebo, but not significantly so, suggesting a dose-response effect. Although the 45-mg dose of zalospirone seemed to have significant antidepressant efficacy, it was not well tolerated.[1]

Solubility Information

Solubility	DMSO: 2.1 mg/mL (5.01 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3837 mL	11.9184 mL	23.8368 mL
5 mM	0.4767 mL	2.3837 mL	4.7674 mL
10 mM	0.2384 mL	1.1918 mL	2.3837 mL
50 mM	0.0477 mL	0.2384 mL	0.4767 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

Rickels K, et al. Zalospirone in major depression: a placebo-controlled multicenter study. *J Clin Psychopharmacol.* 1996;16(3):212-217.

Richards JB, et al. Buspirone, gepirone, ipsapirone, and zalospirone have distinct effects on the differential-reinforcement-of-low-rate 72-s schedule when compared with 5-HTP and diazepam. *Psychopharmacology (Berl).* 1994;114(1):39-46.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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