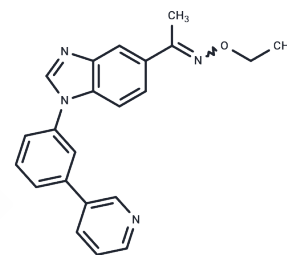


NS-2710

Chemical Properties

CAS No. : 184220-36-8
 Formula: C₂₂H₂₀N₄O
 Molecular Weight: 356.42
 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	NS-2710 is a non-selective GABA(A) receptor partial agonist for the study of anxiety disorders.
Targets(IC50)	GABA Receptor
In vivo	NS2710 was administered orally to mice 15 minutes prior to testing at doses of 1.0, 3.0, and 10.0 mg/kg. NS2710 at doses of 3.0 and 10.0 mg/kg increased response rates, independent of baseline response rates and whether responses were penalized. When differentiating between baseline rates, the effect of composition was highly significant [F(1,7) = 38.9, P < 0.001], and the interaction between composition and treatment was not significant, but the main effect of treatment was significant [F(3,21) = 5.0, P < 0.01]. In both cases, post hoc tests showed that NS2710 at doses of 3.0 and 10.0 mg/kg increased response rates regardless of whether response was penalized or unpunished [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8057 mL	14.0284 mL	28.0568 mL
5 mM	0.5611 mL	2.8057 mL	5.6114 mL
10 mM	0.2806 mL	1.4028 mL	2.8057 mL
50 mM	0.0561 mL	0.2806 mL	0.5611 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

Atack JR, et al. GABAA receptor subtype-selective modulators. I. $\alpha 2/\alpha 3$ -selective agonists as non-sedating anxiolytics. *Curr Top Med Chem*. 2011;11(9):1176-202. Review.

Evenden J, et al. A comparison of the effects of psychotomimetics and anxiolytics on punished and unpunished responding maintained by fixed interval schedules of food reinforcement in the rat. *Behav Pharmacol*. 2006 Feb; 17(1):87-99.

Mirza NR, et al. Do subtype-selective gamma-aminobutyric acid A receptor modulators have a reduced propensity to induce physical dependence in mice? *J Pharmacol Exp Ther*. 2006 Mar;316(3):1378-85.

Atack JR, et al. Anxiolytic compounds acting at the GABA(A) receptor benzodiazepine binding site. *Curr Drug Targets CNS Neurol Disord*. 2003 Aug;2(4):213-32. Review.

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