

Lesopitron HCl

Chemical Properties

CAS No. : 132449-88-8

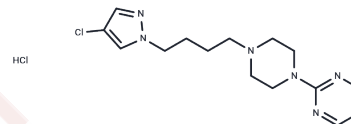
Formula: C₁₅H₂₂Cl₂N₆

Molecular Weight: 357.28

Store at low temperature

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	Lesopitron HCl is a 5-HT _{1A} receptor agonist with anxiolytic effects that reverses dark avoidance behavior associated with cocaine withdrawal in mice.
Targets(IC ₅₀)	5-HT Receptor
In vivo	E4424 (acute oral) increased adherent mucus levels by 12%, 11%, and 13%, relative to controls. Chronic E4424 significantly increased gastric mucus relative to controls (69% increase). E4424 has potent anti-gastric secretory and antiulcer effects.[1]

Solubility Information

Solubility	DMSO: 4.8 mg/mL (13.43 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	2.7989 mL	13.9946 mL	27.9893 mL
5 mM	0.5598 mL	2.7989 mL	5.5979 mL
10 mM	0.2799 mL	1.3995 mL	2.7989 mL
50 mM	0.056 mL	0.2799 mL	0.5598 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

Glavin GB, et al. Effects of a novel 5-HT_{1A} receptor agonist, E4424, on gastric adherent mucus levels following restraint stress in rats. *Dig Dis Sci.* 1995 ; 40(11):2317-2320.

Haj-Dahmane S, et al. Interactions of lesopitron (E-4424) with central 5-HT_{1A} receptors: in vitro and in vivo studies in the rat. *Eur J Pharmacol.* 1994 Apr 1;255(1-3):185-96.

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