Data Sheet (Cat.No.TQ0023)



Lorediplon

Chemical Propert	ties	
CAS No. :	917393-39-6	H ₃ C F
Formula:	C20H15FN4O2S	H ₃ C ^N
Molecular Weight:	394.42	
Appearance:	no data available	s S
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year	

Biological Description

Description	Lorediplon is a novel hypnotic drug acting as a GABAA receptor modulator, differentially active at the α 1-subunit, associated with promoting sleep.
Targets(IC50)	GABA Receptor
In vivo ©	In vivo, Lorediplon inhibits spontaneous motor activity and increases the duration of sleep in mice (ED50s = 0.13 and 1.2 mg/kg, respectively). It selectively inhibits spontaneous motor activity, which is driven by α 1 subunit-containing GABAA receptors, over modification of muscular tone in mice, an α 2 subunit-containing GABAA receptor-stimulated activity [1]. Lorediplon (0.13 and 1.2 mg/kg) also decreases latency to slowwave sleep (SWS) and paradoxical sleep (PS) in mice [2].

Solubility Information

Solubility	DMSO: 100 mg/mL (253.54 mM), Sonication is recommended.
	(< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg	
1 mM	2.5354 mL	12.6768 mL	25.3537 mL	
5 mM	0.5071 mL	2.5354 mL	5.0707 mL	
10 mM	0.2535 mL	1.2677 mL	2.5354 mL	
50 mM	0.0507 mL	0.2535 mL	0.5071 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

Horoszok L, et al. A single-dose, randomized, double-blind, double dummy, placebo and positive-controlled, fiveway cross-over study to assess the pharmacodynamic effects of lorediplon in a phase advance model of insomnia

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