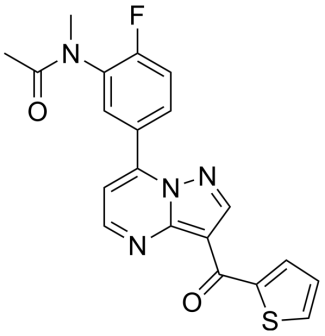
Lorediplon



Cat. No.: HY-19371

CAS No.: 917393-39-6

Molecular Formula: $C_{20}H_{15}FN_4O_2S$

Molecular Weight: 394.42

Target: GABA Receptor

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year

SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (253.54 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (6.34 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.34 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Lorediplon is a novel non-benzodiazepine drug acting as a GABAA receptor modulator, differentially active at the alpha1-subunit, associated with promoting sleep.Target: GABALorediplon is a drug for the treatment of insomnia, has been successfully completed with a best-in-class efficacy profile in terms of maintaining sleep and sleep quality, Lorediplon targets GABAA. [1] Lorediplon demonstrates a minimum of 10-fold and 6-fold increase in potency (respectively) in the spontaneous motor activation studies. At concentrations of 1.2mg/kg, Lorediplon demonstrates a 57%increased effect on Slow Wave Sleep (SWS), when compared with a placebo.[2]

REFERENCES

[1]. Zisapel N. Current Phase II investigational therapies for insomnia. Expert Opin Investig Drugs. 2015 Mar;24(3):401-411.

[2]. Horoszok L, et al. A single-dose, randomized, double-blind, double dummy, placebo and positive-controlled, five-way cross-over study to assess the pharmacodynamic effects of lorediplon in a phase advance model of insomnia in healthy Caucasian adult male subjects. Hum Psychopharmacol. 2014 May;29(3):266-273.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA