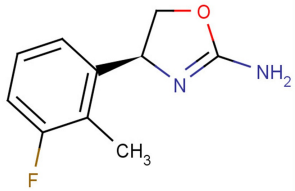
Data Sheet (Cat.No.T12745)

TargetMol
A DRUG SCREENING EXPERT

RO5263397

Chemical Properties



CAS No.:	1357266-05-7
Formula:	C10H11FN2O
Molecular Weight:	194.21
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	RO5263397 is a potent, selective, and orally available agonist of TAAR1(with EC50s of 17 and 35 nM for human TAAR1 and rat TAAR1, respectively). with ntidepressant-like effect.
Targets(IC_{50})	Others: None
In vivo	Dosing at the mid-light phase (ZT6)(RO5263397) increased wake time at 0.3 and 1 mg/kg. RO5263397 ecreases NREM time in WT mice. RO5263397 (0.3 and 1.0 mg/kg; p.o.; in OE mice) powerfully increases W time in OE mice for 5-6 h. NREM sleep is suppressed for 4-6 h and REM sleep is almost completely suppressed for 6 h after all doses of RO5263397[3].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.149 mL	25.745 mL	51.491 mL
5 mM	1.03 mL	5.149 mL	10.298 mL
10 mM	0.515 mL	2.575 mL	5.149 mL
50 mM	0.103 mL	0.515 mL	1.03 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Galley G, et al. Discovery and Characterization of 2-Aminooxazolines as Highly Potent, Selective, and Orally Active TAAR1 Agonists.ACS Med Chem Lett. 2015 Dec 30;7(2):192-7.
2. Schwartz MD, et al. Trace Amine-Associated Receptor 1 Regulates Wakefulness and EEG Spectral Composition.Neuropsychopharmacology. 2017 May;42(6):1305-1314.
3. Espinoza S, et al. Biochemical and Functional Characterization of the Trace Amine-Associated Receptor 1 (TAAR1) Agonist RO5263397.Front Pharmacol. 2018 Jun 21;9:645.

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