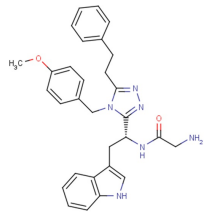
Data Sheet (Cat.No.T11719L)

TargetMol
A DRUG SCREENING EXPERT

JMV 2959

Chemical Properties



CAS No.:	925238-89-7
Formula:	C30H32N6O2
Molecular Weight:	508.61
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	JMV 2959 is an antagonist of growth hormone secretagogue receptor type 1a (GHS-R1a) (IC50: 32 nM).
Targets(IC_{50})	GHS-R1a: 32 nM
In vitro	JMV 2959 does not cause any intracellular calcium mobilization by itself [1].
In vivo	JMV 2959 dose-dependently reduces the startle response ($F(3.42)=4.4$, $p<0.01$) and enhances prepulse inhibition (PPI) ($F(3.42)=3.9$, $p<0.05$) in the prepulse inhibition paradigm. JMV 2959 (6 mg/kg) causes a obviously suppression of locomotion on days 1 to 7 relative to baseline day 0 ($F(7,49)=2.21$, $p<0.05$). When administered alone, it does not increase food intake and does not obviously stimulate growth hormone (GH) release [1]. The alteration in the startle response is mainly due to a 27% decrease in the startle seen in the highest dose of JMV 2959 (6 mg/kg) compare to vehicle ($p<0.05$) [2]. Results also reveal a significant interaction between JMV 2959 treatment and day ($F(1,14)=4.397$, $p<0.05$) [3].

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.966 mL	9.831 mL	19.661 mL
5 mM	0.393 mL	1.966 mL	3.932 mL
10 mM	0.197 mL	0.983 mL	1.966 mL
50 mM	0.039 mL	0.197 mL	0.393 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. Moulin A, et al. The 1,2,4-triazole as a scaffold for the design of ghrelin receptor ligands: development of JMV 2959, a potent antagonist. Amino Acids. 2013 Feb;44(2):301-14.

2. Engel JA, et al. Blockade of growth hormone secretagogue receptor 1A signaling by JMV 2959 attenuates the NMDAR antagonist, phencyclidine-induced impairments in prepulse inhibition. Psychopharmacology (Berl). 2015 Dec;232(23):4285-92.

3. Clifford PS, et al. Attenuation of cocaine-induced locomotor sensitization in rats sustaining genetic or pharmacologic antagonism of ghrelin receptors. Addict Biol. 2012 Nov;17(6):956-63.

Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481