Zolunicant

HY-147428		
188125-42-0	0	
$C_{22}H_{28}N_2O_3$		
368.47		
nAChR; Par	asite	
Membrane	Transpor	ter/Ion Channel; Neuronal Signaling; Anti-infection
Powder In solvent	-20°C -80°C -20°C	3 years 6 months 1 month
	188125-42- C ₂₂ H ₂₈ N ₂ O ₃ 368.47 nAChR; Par Membrane Powder	188125-42-0 $C_{22}H_{28}N_2O_3$ 368.47 nAChR; Parasite Membrane Transpor Powder -20°C In solvent -80°C

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BIOLOGICAL ACTIV		
Description	Zolunicant (MM-110) is a po Zolunicant can decrease the nicotine, and ethanol in rat	tent inhibitor against nicotinic $\alpha 3\beta 4$ receptors with an IC ₅₀ of 0.90 μ M to combat addiction. e self-administration of several addictive agents including morphine, methamphetamine, model. Zolunicant can be studied as a potential research for multiple forms of agent abuse ^[1] . otent leishmanicide effect against Leishmania amazonensis ^[2] .
IC ₅₀ & Target	Leishmania	
In Vitro	. Zolunicant (18-MCOR; 0-20) μM) shows an inhibitory activity against nicotinic α3β4 receptors with an IC ₅₀ of 0.90 μM ^[1] .) μg/ml; 24h) also shows antiamastigote activity against L. amazonensis-infected macrophage ^[2] . confirmed the accuracy of these methods. They are for reference only.
	Cell Line:	L. amazonensis-infected macrophage
	Concentration:	0, 1, 10,15 and 20 μg/ml
	Incubation Time:	24 h
	Result:	Decreased the amastigote survival by 73, 84, and 92%, respectively in the treatment with 18-MCOR at 1, 10, or 20 $\mu g/ml.$
In Vivo	α3β4 nicotinic receptors in t	nous administration; 0-20 μg a day;14 days) decreases morphine self-administration by blocking the habenulo-interpeduncular pathway ^[3] . confirmed the accuracy of these methods. They are for reference only.
	Animal Model:	Naïve female Long-Evans derived rats ^[3]
	Dosage:	0,10 and 20 μg
	Administration:	Intravenous administration; once a day; 14 days
	Result:	Infused into the medial habenula and interpeduncular nucleus decreased morphine self-



administration (interpeduncular nucleus: F(5,29) = 6.89, P < 0.0001; medial habenula: F(4,28) = 3.07, P < 0.03).

REFERENCES

[1]. Pace CJ, et al. Novel iboga alkaloid congeners block nicotinic receptors and reduce drug self-administration. European journal of pharmacology. 2004;492(2-3):159-67.

[2]. Delorenzi JC, et al. In vitro activities of iboga alkaloid congeners coronaridine and 18-methoxycoronaridine against Leishmania amazonensis. Antimicrob Agents Chemother. 2002;46(7):2111-5.

[3]. Glick SD, et al. 18-Methoxycoronaridine acts in the medial habenula and/or interpeduncular nucleus to decrease morphine self-administration in rats. European journal of pharmacology. 2006;537(1-3):94-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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