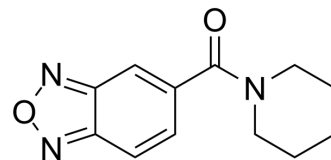


Farampator

Cat. No.:	HY-10937		
CAS No.:	211735-76-1		
Molecular Formula:	C ₁₂ H ₁₃ N ₃ O ₂		
Molecular Weight:	231.25		
Target:	iGluR		
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 (432.43 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.3243 mL	21.6216 mL	43.2432 mL
		5 mM	0.8649 mL	4.3243 mL	8.6486 mL
10 mM		0.4324 mL	2.1622 mL	4.3243 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (10.81 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.81 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.81 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Farampator (CX-691;Org24448) is an AMPA receptor positive modulator.
In Vivo	Farampator has potential in treating disorders characterised by cognitive deficits such as Alzheimer's disease and schizophrenia. CX691 attenuates a scopolamine-induced impairment of cued fear conditioning following acute administration (0.1 mg/kg p.o.) and a temporally induced deficit in novel object recognition following both acute (0.1 and 1.0 mg/kg p.o.) and sub-chronic (bi-daily for 7 days) administration (0.01, 0.03, 0.1 mg/kg p.o.). It also improves attentional set-shifting following sub-chronic administration (0.3 mg/kg p.o.) ^[1] . Farampator (500 mg) unequivocally improves short-

term memory but appears to impair episodic memory. Furthermore, it tends to decrease the number of switching errors in the CTMT. Drug-induced side effects (SEs) included headache, somnolence and nausea. Subjects with SEs has significantly higher plasma levels of farampator than subjects without SEs^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal Administration ^[1]

Rats: Rats are dosed acutely with CX691 (0.1, 0.3 and 1.0; 2 ml/kg; p.o.) or vehicle (1% methylcellulose; 1 ml/kg; p.o.), and microdialysate samples are collected every 30 min for 4 h post dose. At the end of each experimental day, animals are returned to their home cage and re-used in a randomised cross-over design, allowing at least 7 days drug washout before subsequent use. After the completion of the final microdialysis experiment, animals are killed, and brains are removed and stored in formalin solution for probe placement verification^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Woolley ML, et al. Evaluation of the pro-cognitive effects of the AMPA receptor positive modulator, 5-(1-piperidinylcarbonyl)-2,1,3-benzoxadiazole (CX691), in the rat. *Psychopharmacology (Berl)*. 2009 Jan;202(1-3):343-54.

[2]. Wezenberg E, et al. Acute effects of the ampakine farampator on memory and information processing in healthy elderly volunteers. *Neuropsychopharmacology*. 2007 Jun;32(6):1272-83.

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

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