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# Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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# Farampator

**Cat. No.:** HY-10937

**CAS No.:** 211735-76-1

**Molecular Formula:** $C_{12}H_{13}N_3O_2$

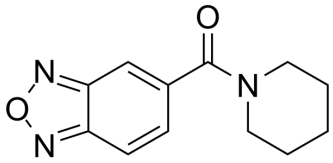
**Molecular Weight:** 231.25

**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)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 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**

1. 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
2. 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
3. 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 appeares 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 ishout 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.



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