



上海源叶生物科技有限公司
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产品名称: **Farampator**
产品别名: **CX-691; Org24448**

生物活性:

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].																	
Solvent&Solubility	In Vitro: DMSO : ≥ 34 mg/mL (147.03 mM) * "≥" means soluble, but saturation unknown.																	
	<table><tr><td rowspan="4">Preparing Stock Solutions</td><td><div>SolventMassConcentration</div></td><td>1 mg</td><td>5 mg</td><td>10 mg</td></tr><tr><td>1 mM</td><td>4.3243 mL</td><td>21.6216 mL</td><td>43.2432 mL</td></tr><tr><td>5 mM</td><td>0.8649 mL</td><td>4.3243 mL</td><td>8.6486 mL</td></tr><tr><td>10 mM</td><td>0.4324 mL</td><td>2.1622 mL</td><td>4.3243 mL</td></tr></table>	Preparing Stock Solutions	<div>SolventMassConcentration</div>	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
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*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限 -80°C, 6 months; -20°C, 1 month。 -80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。																		
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.																	
实验参考:																		
Animal Administration	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].																	
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