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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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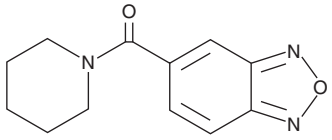
PRODUCT INFORMATION

Farampator

Item No. 21510

CAS Registry No.:	211735-76-1
Formal Name:	2,1,3-benzoxadiazol-5-yl-1-piperidinyl-methanone
Synonym:	CX-691
MF:	$C_{12}H_{13}N_3O_2$
FW:	231.3
Purity:	≥98%
UV/Vis.:	λ_{max}: 295 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Farampator is supplied as a crystalline solid. A stock solution may be made by dissolving the farampator in the solvent of choice, which should be purged with an inert gas. Farampator is soluble in organic solvents such as DMSO and dimethyl formamide (DMF). The solubility of farampator in these solvents is approximately 20 and 30 mg/ml, respectively.

Farampator is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, farampator should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Farampator has a solubility of approximately 0.025 mg/ml in a 1:40 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Farampator is a positive allosteric modulator of AMPA receptors that has an EC_{50} value greater than 32 µM for evoking glutamate currents in isolated pyramidal neurons.[1] In rats, it enhances novel object recognition memory (0.1 mg/kg, p.o.) and attentional set-shifting (0.3 mg/kg, p.o.) and reverses a scopolamine-induced deficit in cued fear conditioning (0.1 mg/kg, p.o.).[2]

References

1. Menniti, F.S., Lindsley, C.W., Conn, P.J., *et al.* Allosteric modulators for the treatment of schizophrenia: Targeting glutamatergic networks. *Curr. Top. Med. Chem.* **13(1)**, 26-54 (2013).
2. Woolley, M.L., Waters, K.A., Garlton, J.E., *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. *Psychopharmacol.(Berl).* **202(1-3)**, 343-354 (2009).

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