## LY393615

®

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Cat. No.:	HY-135478		
CAS No.:	325819-97-4	_	
Molecular Formula:	C <sub>21</sub> H <sub>26</sub> ClF <sub>2</sub> NO	F	
Molecular Weight:	381.89		
Target:	Calcium Channel; Sodium Channel	Ĥ	
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling	F H-CI	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.		

LY393615 (NCC1048) is a nov μM and 5.2 μM for α1A and α in models of in cerebral ische	el neuronal Ca <sup>2+</sup> (calcium channel) and Na <sup>+</sup> channel (sodium channel) blocker with IC <sub>50</sub> s of 1.9 1B calcium channel subunits. LY393615 has good brain penetration and neuroprotective effects emia that can be used for neurological disease research <sup>[1]</sup> .
P/Q-type calcium channel 4 μM (IC <sub>50</sub> )	
LY393615 (0-10 μM) inhibits o 5.2 μM, and inhibits P-type c MCE has not independently o	calcium flux in HEK 293 cells with $\alpha$ 1A and $\alpha$ 1B calcium channel subunits with IC <sub>50</sub> s of 1.9 $\mu$ M and alcium channels in isolated Purkinje cells with IC <sub>50</sub> of 4.0 $\mu$ M <sup>[1]</sup> . confirmed the accuracy of these methods. They are for reference only.
LY393615 (10 or 12.5 or 15 m provided significant protecti .LY393615 (15 mg/kg; i.p., 1 r (i.p.) <sup>[1]</sup> . Pharmacokinetic par MCE has not independently of Route Dose (mg	g/kg; i.p., single dose) protects against hypoxiahypoglycaemic insults in brain slices and also on against ischaemia-induced hippocampal damage in gerbil global cerebral ischaemiasup <sup>[1]</sup> ng/kg; i.v.; single dose) has good brain penetration with $T_{1/2}$ s of 2.04 hours (i.v.) and 2.5 hours rameters for LY393615 in Gerbils <sup>[1]</sup> confirmed the accuracy of these methods. They are for reference only. g/kg) $T_{1/2}$ (h) 2.04
i.p. 15          Animal Model:         Dosage:         Administration:         Result:	2.5 Gerbils global cerebral ischaemia <sup>[1]</sup> 10, 12.5 or 15 mg/kg Intraperitoneal injection (i.p.) Protected against hypoxiahypoglycaemic insults in brain slices and also provided significant protection against ischaemia-induced hippocampal damage in gerbil global
	LY393615 (NCC1048) is a nov µM and 5.2 µM for α1A and α in models of in cerebral ische P/Q-type calcium channel 4 µM (IC <sub>50</sub> ) LY393615 (0-10 µM) inhibits of 5.2 µM, and inhibits P-type of MCE has not independently of LY393615 (10 or 12.5 or 15 m provided significant protection .LY393615 (15 mg/kg; i.p., 1 r (i.p.) <sup>[1]</sup> . Pharmacokinetic park MCE has not independently of i.v. 1 i.p. 15 Animal Model: Dosage: Administration: Result:

	cerebral ischaemia.
Animal Model:	Gerbils (Pharmacokinetic assay) <sup>[1]</sup>
Dosage:	1.0 or 15 mg/kg
Administration:	Intraperitoneal injection (i.p.) ; Intravenous injection (i.v.)
Result:	Had good brain penetration with $T_{1/2}$ s of 2.04 hours (i.v.) and 2.5 hours (i.p.) <sup>[1]</sup> .

## REFERENCES

[1]. O'Neill MJ, et.al. LY393615, a novel neuronal Ca(2+) and Na(+) channel blocker with neuroprotective effects in models of in vitro and in vivo cerebral ischemia. Brain Res. 2001 Jan 5;888(1):138-149.

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

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