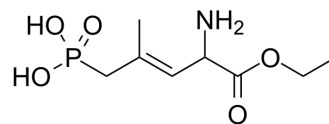


## CGP 39551

Cat. No.:	HY-107703
CAS No.:	127910-32-1
Molecular Formula:	C <sub>8</sub> H <sub>16</sub> NO <sub>5</sub> P
Molecular Weight:	237.19
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	CGP 39551 is a potent, orally active, competitive N-methyl-D-aspartate (NMDA) receptor antagonist with potent anticonvulsant activity <sup>[1]</sup> . CGP 39551 shows measurable inhibitory activity at both L-[ <sup>3</sup> H]-glutamate (K <sub>i</sub> =8.4 μM) <sup>[2]</sup> .
<b>In Vitro</b>	CGP 39551 inhibits the binding of the selective NMDA receptor antagonist, [ <sup>3</sup> H]-CPP to rat brain postsynaptic densities (PSDs) with a K <sub>i</sub> of 310 nM <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	CGP 39551 exhibits maximal electroshock-induced seizures in mice with the ED <sub>50</sub> of 4 mg/kg (p.o.) <sup>[2]</sup> . Following chronic neonatal treatment with CGP 39551, adult rats show increased behavioral responses to the D2 dopamine receptor stimulation <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. G E Fagg, et al. CGP 37849 and CGP 39551: novel competitive N-methyl-D-aspartate receptor antagonists with potent oral anticonvulsant activity. *Prog Clin Biol Res.* 1990;361:421-7.
- [2]. G E Fagg, et al. CGP 37849 and CGP 39551: novel and potent competitive N-methyl-D-aspartate receptor antagonists with oral activity. *Br J Pharmacol.* 1990 Apr;99(4):791-7.
- [3]. R Dall'Olio, et al. Chronic neonatal blockade of N-methyl-D-aspartate receptor by CGP 39551 increases dopaminergic function in adult rat. *Neuroscience.* 1994 Nov;63(2):451-5.

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

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