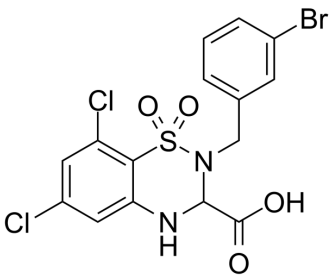
RPR104632

Cat. No.:	HY-101600
CAS No.:	154106-92-0
Molecular Formula:	$C_{15}H_{11}BrCl_2N_2O_4S$
Molecular Weight:	466.13
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

Description	RPR104632 is a specific antagonist of NMDA receptor, with potent neuroprotective properties.
In Vitro	RPR104632 antagonizes the binding of [^{3}H]5,7-dichlorokynurenic acid to the rat cerebral cortex, with a K_i of 4.9 nM. RPR104632 inhibits [^{3}H]N-[1-(2-thienyl)cyclohexyl]-3,4-piperidine ([^{3}H]TCP) binding in the presence of N-methyl-D-aspartate (NMDA) (IC_{50} = 55 nM). RPR104632 inhibits the NMDA-evoked increase in guanosine 3',5'-cyclic monophosphate (cGMP) levels of neonatal rat cerebellar slices (IC_{50} = 890 nM) in a non-competitive manner and markedly reduces NMDA-induced neurotoxicity in rat hippocampal slices and in cortical primary cell cultures. MK-801 (1 μM) completely protects the CA1 and CA3 pyramidal neurones against NMDA-induced toxicity, but these effects are not blocked by glycine. RPR104632 produces a significant and consistent neuroprotective effect towards all the NMDA-induced toxicity and has no effect when it is added alone at concentrations up to 10 μM. RPR104632 has neuroprotective potencies, with EC_{50} of 4 μM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Boireau A, et al. Neuroprotective effects of RPR 104632, a novel antagonist at the glycine site of the NMDA receptor, in vitro. Eur J Pharmacol. 1996 Apr 11;300(3):237-46.

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