
Product Data Sheet

Product Name: RPR104632

Cat. No.: GC31039

Chemical Properties

Cas. No. 154106-92-0

SMILES O=C(C(NC1=CC(Cl)=CC(Cl)=C12)N(CC3=CC=CC(Br)=C3)S2(=O)=O)OFormula $C_{15}H_{11}BrCl_2N_2O_4S$ M.Wt 466.13

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

RPR104632 is a specific antagonist of NMDA receptor, with potent neuroprotective properties.

RPR104632 antagonizes the binding of [³H]5,7-dichlorokynurenic acid to the rat cerebral cortex, with a K_i of 4.9 nM. RPR104632 inhibits [³H]N-[1-(2-thienyl)cyclohexyl]-3,4-piperidine ([³H]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].

[1]. Boireau A, et al. Neuroprotective effects of RPR 104632, a novel antagonist at the

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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glycine site of the NMDA receptor, in vitro. Eur J Pharmacol. 1996 Apr 11;300(3):237-46.

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