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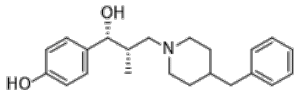
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Ro 25-6981
Cat. No.	:	PC-22280
CAS No.	:	169274-78-6
Molecular Formula	:	$C_{22}H_{29}NO_2$
Molecular Weight	:	339.48
Target	:	iGluR
Solubility	:	10 mM in DMSO



Biological Activity

Ro 25-6981 is a potent and selective antagonist of NMDA receptors containing NR2B subunits with IC50 of 3 nM for inhibition 3H-MK-801 binding to rat forebrain membranes.
Ro 25-6981 blocks NMDA receptor subtypes expressed in Xenopus oocytes with the subunit combinations NR1C & NR2B with IC50 of 9 nM, >5000-fold selectivity over NR1C & NR2A.
Ro 25-6981 protected cultured cortical neurons against glutamate toxicity (16 h exposure to 300 microM glutamate) and combined oxygen and glucose deprivation (60 min followed by 20 h recovery) with IC50 values of 0.4 microM and 0.04 microM, respectively.
Ro 25-6981 induced antinociception without motor dysfunction in vivo.

References

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Lynch DR, et al. Eur J Pharmacol. 2001 Mar 30;416(3):185-95.

Fischer G, et al. J Pharmacol Exp Ther. 1997 Dec;283(3):1285-92.

E-mail: tech@probechem.com