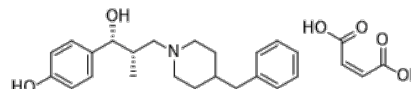


**Product Name** : Ro 25-6981 maleate  
**Cat. No.** : PC-22279  
**CAS No.** : 1312991-76-6  
**Molecular Formula** : C<sub>26</sub>H<sub>33</sub>NO<sub>6</sub>  
**Molecular Weight** : 455.55  
**Target** : iGluR  
**Solubility** : 10 mM in DMSO



## Biological Activity

Ro 25-6981 maleate is a potent and selective antagonist of NMDA receptors containing NR2B subunits with IC<sub>50</sub> 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 IC<sub>50</sub> 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 IC<sub>50</sub> values of 0.4 microM and 0.04 microM, respectively.

Ro 25-6981 induced antinociception without motor dysfunction in vivo.

## References

Pinard E, et al. *Bioorg Med Chem Lett*. 2001 Aug 20;11(16):2173-6.

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.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com