



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION

## Ro 25-6981 (maleate)

Item No. 14578

CAS Registry No.: 1312991-76-6  
 Formal Name:  $\alpha$ R-(4-hydroxyphenyl)- $\beta$ S-methyl-4-(phenylmethyl)-1-piperidinepropanol, 2Z-butenedioate  
 MF:  $C_{22}H_{29}NO_2 \cdot C_4H_4O_4$   
 FW: 455.6  
 Purity:  $\geq 98\%$   
 Supplied as: A solid  
 Storage:  $-20^\circ\text{C}$   
 Stability:  $\geq 2$  years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Ro 25-6981 (maleate) is supplied as a solid. A stock solution may be made by dissolving the Ro 25-6981 (maleate) in the solvent of choice. A stock solution may be made by dissolving the Ro 25-6981 (maleate) in the solvent of choice. Ro 25-6981 (maleate) is soluble in the organic solvent DMSO, which should be purged with an inert gas. It is also soluble in water. The solubility of Ro 25-6981 (maleate) in DMSO and water is approximately 100 and 25 mM, respectively. We do not recommend storing the aqueous solution for more than one day.

### Description

Ro 25-6981 (maleate) is a potent, selective activity-dependent blocker of NMDA receptors containing the NR2B subunit ( $IC_{50}s = 9$  nM and  $52 \mu\text{M}$  for cloned receptor subunit combinations NR1C/NR2B and NR1C/NR2A, respectively).<sup>1</sup> Ro 25-6981 (maleate) displays neuroprotectant effects *in vitro*, protecting cortical neurons against glutamate toxicity and combined oxygen and glucose deprivation with  $IC_{50}$  values of 0.4 and  $0.04 \mu\text{M}$ , respectively.<sup>1</sup>

### Reference

1. Fischer, G., Mutel, V., Trube, G., *et al.* Ro 25-6981, a highly potent and selective blocker of N-methyl-D-aspartate receptors containing the NR2B subunit. Characterization *in vitro*. *J. Pharmacol. Exp. Ther.* **283**(3), 1285-1292 (1997).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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