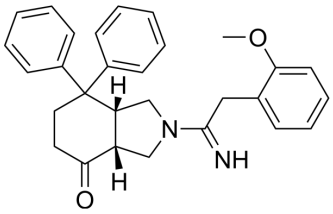
RP 67580

Cat. No.:	HY-108483
CAS No.:	135911-02-3
Molecular Formula:	$C_{29}H_{30}N_2O_2$
Molecular Weight:	438.56
Target:	Neurokinin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

RP 67580 is a non-peptide antagonist of substance P (SP), competitively inhibits the binding of [3H]SP to neurokinin receptor 1 (NK1 receptor) in rat brain membranes with a K_i value of 4.16 nM. RP 67580 is a specific antagonist of NK1 receptors and can be used in the research of pain and neurogenic inflammation[1].

In Vivo

RP 67580 (0.03-1 mg/kg; i.v.; single dose) significantly inhibits neurogenic inflammation.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male albino Sprague-Dawley rats
Dosage:	0.03, 0.1, 0.3, 1 mg/kg
Administration:	i.v.; single dose
Result:	Potently and dose-dependently inhibited the strong plasma extravasation caused by electrical stimulation of the saphenous nerve for 15 minutes with an ED50 value of 0.15 mg/kg.

REFERENCES

[1]. Garret C, et al. Pharmacological properties of a potent and selective nonpeptide substance P antagonist. Proc Natl Acad Sci U S A. 1991 Nov 15;88(22):10208-12.

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