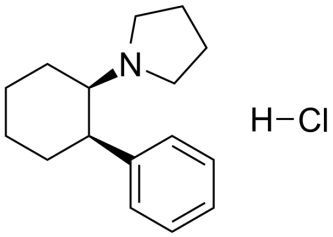
RX 67668

Cat. No.:	HY-124047
CAS No.:	40709-76-0
Molecular Formula:	$C_{16}H_{24}ClN$
Molecular Weight:	265.82
Target:	AChE
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	RX 67668 is a potent cholinesterase inhibitor with an IC_{50} of 5 μM for both acetylcholinesterase (AChE) and butyrylcholinesterase. RX 67668 can reverse the neuromuscular blockade induced by D-tubocurarine. RX 67668 is a muscle relaxant used to relieve skeletal muscle fatigue[1][2].
IC_{50} & Target	IC50: 5 μM (acetylcholinesterase) and 5 μM (butyrylcholinesterase)[1]
In Vivo	RX 67668 (1-4 mg/kg; i.p.) reduces by half the dose of methacholine necessary to produce red tears, whilst RX 67668 (7-2 mg/kg s.c.) is necessary to reduce the pupil diameter of the mouse to 50% of the control value[1]. Rat anterior tibialis preparation of the cat tibialis preparation demonstrates that RX 67668 (0.3-1.0 mg/kg; i.v.) is effective in reversing tubocurarine-induced muscle blockade[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Doxey JC, et al. Some pharmacological properties of RX 67668--a new anticholinesterase. Br J Pharmacol. 1972 Nov;46(3):568P-569P.

[2]. Metcalf G, wt al. Evaluation of RX 72601 as an anti-curare agent. Br J Anaesth. 1975 Apr;47(4):451-6.

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