

Data Sheet

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 Product Name
 :
 RJR-2403

 Cat. No.
 :
 PC-43405

 CAS No.
 :
 15585-43-0

 Molecular Formula
 :
 C₁₀H₁₄N₂

 Molecular Weight
 :
 162.2316

 Target
 :
 nAChR

Solubility : 10 mM in DMSO

Biological Activity

RJR-2403 (Rivanicline, Metanicotine) is a potent, selective neuronal nicotinic ACh (nAChR) agonist with high affinity to rat brain cortex (Ki=26 nM), does not significantly activate muscle type nAChRs or muscarinic receptors; RJR-2403 is comparable to nicotine in activating rat thalamic synaptosomes with EC50 of 732 nM; significantly improves passive avoidance retention after scopolamine-induced amnesia and enhanced both working and reference memory in rats, also demonstrates greatly reduced cardiovascular effects; exerts its antinociceptive effect via nicotinic rather than either opioid or muscarinic mechanisms.

References

Bencherif M, et al. J Pharmacol Exp Ther. 1996 Dec;279(3):1413-21.

Lippiello PM, et al. J Pharmacol Exp Ther. 1996 Dec;279(3):1422-9.

Damaj MI, et al. J Pharmacol Exp Ther. 1999 Oct;291(1):390-8.

Ueno K, et al. J Pharmacol Exp Ther. 2002 Jul;302(1):95-100.

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

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