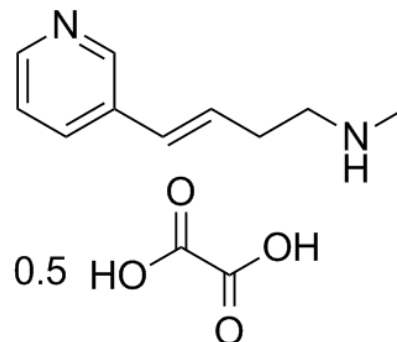


Product Name : RJR-2403 hemioxalate
Cat. No. : PC-43406
CAS No. :
Molecular Formula : C₁₁H₁₅N₂O₂
Molecular Weight : 207.23
Target : nAChR
Solubility : 10 mM in DMSO



Biological Activity

RJR-2403 (Rivanioline, Metanicotine) is a potent, selective neuronal nicotinic ACh (nAChR) agonist with high affinity to rat brain cortex ($K_i=26$ 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

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

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

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