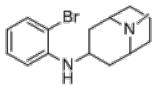
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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	AT1001
Cat. No.	:	PC-49428
CAS No.	:	1314801-63-2
Molecular Formula	:	$C_{15}H_{21}BrN_2$
Molecular Weight	:	309.251
Target	:	nAChR
Solubility	:	10 mM in DMSO



Biological Activity

AT1001 (AT-1001) is a high affinity and selective **α3β4 nAChR** antagonist with Ki value of 2.4 nM, >90-fold selectivity over the other major subtypes (α4β2 and α7 nAChR).
AT1001 potently and reversibly blocks epibatidine-induced inward currents in HEK cells transfected with α3β4 nAChR.
AT-1001 potently and dose-dependently blocks nicotine self-administration in rats, without affecting food responding.
AT-1001 inhibits nicotine-induced [3H]dopamine release poorly and at significantly higher concentrations compared with mecamylamine and conotoxin MII in nucleus accumbens (NAcs) synaptosomal preparation.

References

Toll L, et al. ***Neuropsychopharmacology.*** 2012 May;37(6):1367-76.

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

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