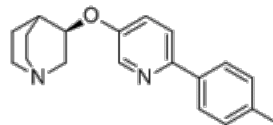


Product Name : AQW-051
Synonyms : AQW051;AQW 051
Cat No. : M15558
CAS Number : 669770-29-0
Molecular Formula : C₁₉H₂₂N₂O
Formula Weight : 294.40
Chemical Name : (3R)-3-[[6-(4-methylphenyl)pyridin-3-yl]oxy]-1-azabicyclo[2.2.2]octane



Description : AQW-051 is a novel, potent and selective, orally bioavailable, brain-penetrant $\alpha 7$ nAChR partial agonist with pK_d of 7.56; displays high selectivity (>100-fold) over other nACh receptors; stimulates calcium influx in GH3-ha7-22 cells recombinantly expressing the human $\alpha 7$ -nACh receptor with pEC₅₀ of 7.41; facilitates learning/memory performance in mice; reduces L-Dopa-induced dyskinesias and extends the duration of L-Dopa effects in parkinsonian monkeys. Parkinson Disease Phase 2 Clinical

Pathway : Membrane Transporter/Ion Channel

Target : nAChR

Receptor : nAChR

Solubility : —

SMILES : CC1=CC=C(C2=CC=C(C(OC[C@H]3CN4CCC3CC4)C=N2)C=C1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Feuerbach D, et al. Br J Pharmacol. 2015 Mar;172(5):1292-304. | 2. Di Paolo T, et al. Parkinsonism Relat Disord. 2014 Nov;20(11):1119-23. | 3. Beinat C, et al. CNS Drugs. 2015 Jul;29(7):529-42. | 4. Trenkwalder C, et al. Mov Disord. 2016 Jul;31(7):1049-54.