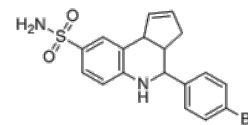


Product Name : 4BP-TQS
Cat. No. : PC-38475
CAS No. : 360791-49-7
Molecular Formula : C₁₈H₁₇BrN₂O₂S
Molecular Weight : 405.310
Target : nAChR
Solubility : 10 mM in DMSO



Biological Activity

4BP-TQS (GAT107 racemic) is a potent, selective, allosteric agonist of **α7 nAChRs** with EC₅₀ of 17 μM, no activity for α1β1δε-, α3β4-, and α4β2 subunit-containing nAChRs at 100 μM.

Metylylcaconitine is a noncompetitive antagonist of 4BP-TQS.

Mutation of an amino acid (M253L), located in a transmembrane cavity, completely blocks agonist activation by 4BP-TQS. 4BP-TQS acts as potentiator of acetylcholine responses, facilitates recovery of α7 nAChRs from desensitization.

References

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Pałczyńska MM, et al. *Mol Pharmacol*. 2012 Nov;82(5):910-7.

Gill JK, et al. *Proc Natl Acad Sci U S A*. 2011 Apr 5;108(14):5867-72.

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

E-mail: tech@probechem.com