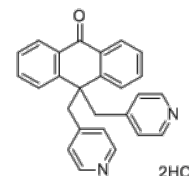


Product Name : XE 991 dihydrochloride
Cat. No. : PC-60686
CAS No. : 122955-13-9
Molecular Formula : C₂₆H₂₀N₂O₂·2HCl
Molecular Weight : 449.37
Target : Potassium Channel
Solubility : 10 mM in DMSO



Biological Activity

XE 991 dihydrochloride is a potent, selective and orally active blocker of voltage-gated potassium channels Kv7 (KCNQ) that blocks KCNQ1, KCNQ2 and KCNQ2+KCNQ3 with K_d of 0.78, 0.7 and 0.6 μM, respectively.

XE 991 displays 14-fold less potency for KCNQ1+minK current with K_d of 11 μM.

XE 991 enhances hippocampal ACh release from rat brain slices (EC₅₀=490 nM) and is a cognitive enhancer in vivo.

References

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Wang HS, et al. *Mol Pharmacol.* 2000 Jun;57(6):1218-23.

MacVinish LJ, et al. *Mol Pharmacol.* 2001 Oct;60(4):753-60.

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

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