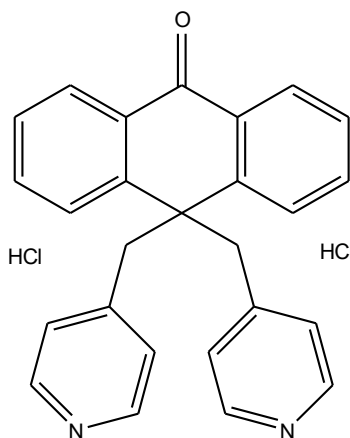


XE 991 dihydrochloride [122955-42-4]

#Cat: NB-48-0967-10MG Size: 10mg



Product Information

Batch No.:	0547BN/01
Chemical Name:	10,10-bis(4-Pyridinylmethyl)-9(10H)-anthracenone dihydrochloride
Batch Molecular Formula:	C ₂₆ H ₂₀ N ₂ O .2HCl
Batch Molecular Weight:	449.37
CAS No.:	[122955-42-4]
Physical Appearance:	Cream solid
Storage:	Desiccate at RT

Solvent and solubility

Soluble to 100 mM in water or to 100 mM in DMSO

Biological activity

A potent and selective KCNQ voltage-gated potassium channel blocker. It blocks KCNQ2+3 / M-currents (IC₅₀ = 0.6 - 0.98 μ M) and KCNQ1 homomeric channels (IC₅₀ = 0.75 μ M), but is less potent against KCNQ1 / minK channels (IC₅₀ = 11.1 μ M). Cognitive enhancer that augments hippocampal ACh release

- CAUTION - Not fully tested. For Research use only. Not for human use. –

References

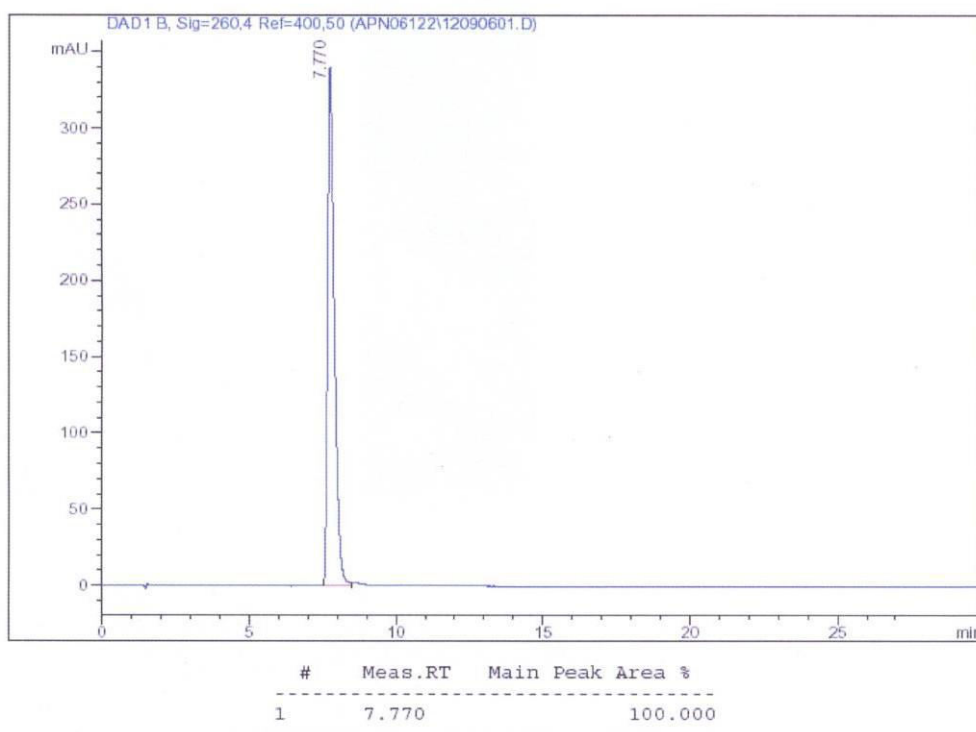
1. Wang et al. (1998) Science 282:1890
2. Zaczek et al. (1998) J Pharmacol Exp Ther 285:724
3. Wang et al. (2000) Mol Pharmacol 57:1218
4. Passmore et al. (2003) J Neurosci 23:7227
5. Yue and Yaari (2004) J Neurosci 24:4614

Analytical data

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: HPLC Assay: < 99% (complies).



Sample I.D: APN06122-1-1
Compound: XE991
Column: Luna C18(2) 100x4.6mm Column: 06-2
Mobile Phase: 7.5% OP (0.1% TFA in ACN) 92.5% AP (0.1% TFA in water)
Flowrate: 1ml/min
Wavelength: 260nm
0.1 mg/mL dissolved in 10% ACN 90% water
30uL injected

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