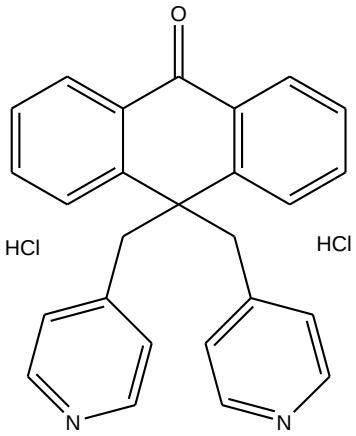
XE 991 dihydrochloride

Cat # NB-48-0967



Product Information

Batch No.:	0547BN/01
Chemical Name:	10,10-bis(4-Pyridinylmethyl)-9(10*H*)-anthracenone dihydrochloride
Batch Molecular Formula:	$C_{26}H_{20}N_2O$ .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 µM) and KCNQ1 homomeric channels (IC50 = 0.75 µM), but is less potent against KCNQ1 / minK channels (IC50 = 11.1 µM). Cognitive enhancer that augments hippocampal ACh release

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

Neo-Biotech
74, rue des Suisses - 92000 Nanterre

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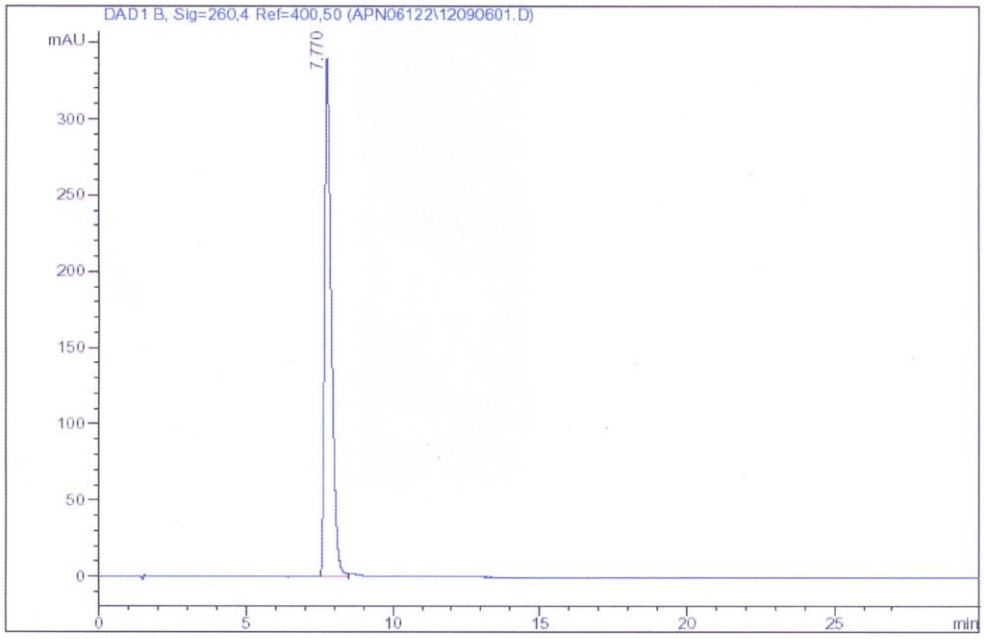
Analytical data

HPLC:	corresponds to the reference
MS:	corresponds to the reference
Tests:	HPLC Assay: < 99% (complies).



#	Meas.RT	Main Peak Area %
1	7.770	100.000

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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