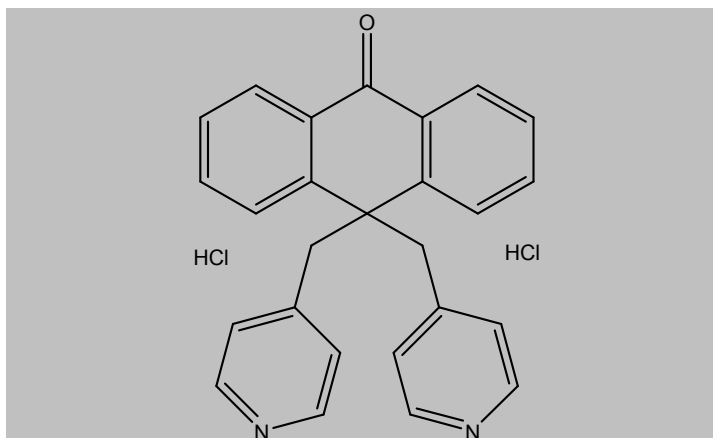


Certificate Of Analysis
Quality Control Testing and Research ApplicationCOA Preparation Date: 30/10/2014
COA Revision Date: 30/10/2017

Product: XE 991 dihydrochloride
Cat. No.: BN0547
Batch No.: 0547BN/01
Chemical Name: 10,10-bis(4-Pyridinylmethyl)-9(10H)-anthracenone dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₀N₂O .2HCl
Batch Molecular Weight: 449.37
CAS No.: [122955-42-4]
Physical Appearance: Cream solid
Melting Point:
Solubility: Soluble to 100 mM in water or to 100 mM in DMSO
Storage: Desiccate at RT
Batch Molecular Structure:



Product Description: 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

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

Certificate Of Analysis

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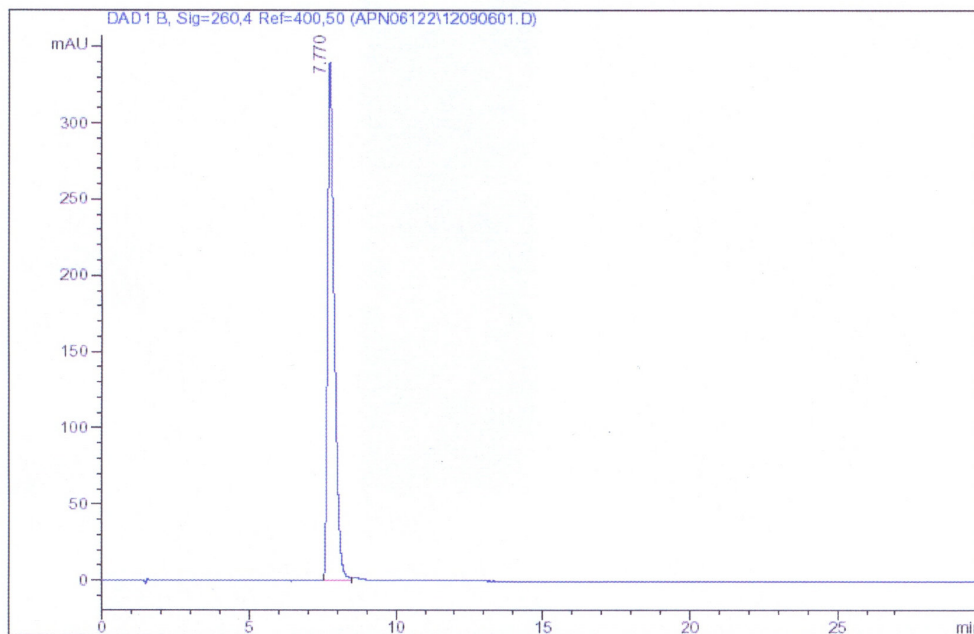
BN0547 XE 991 dihydrochloride

2. 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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