Supporting Information

Synthesis and Preliminary Pharmacological Evaluation of 4'-Arylalkyl Analogues of Clozapine. II. Effect of the Nature and Length of the Linker

Analytical HPLC Conditions - Supplementary Material

Waters HPLC System

Waters 600 Controller
Waters 486 Tunable Absorbance Detector

Waters 600 Pump
Waters 746 Data Module

8-Chloro-11-{4-[(5-hydroxy-1H-3-indolyl)ethyl]piperazino}-5H-dibenzo[b,e][1,4]diazepine dihydrochloride

Column: Nova-Pak HR C<sub>18</sub>
Particle Size: 6 µm
Pore Size: 60 Å

Dimensions: 8 mm × 100 mm
Solvent A: 0.1% TFA / H<sub>2</sub>O
Solvent B: 0.1% TFA / 90% CH<sub>3</sub>CN / H<sub>2</sub>O
Flow rate = 1.5 mL/min. λ = 260 nm
**Isocratic Gradient**

Mobile phase: 60% A / 40% B

100% A (5 minutes)

100% A → 100% B (30 minutes)

100% B (5 minutes)

100% B → 100% A (5 minutes)

100% A (5 minutes)

Retention time: 2.80 minutes

19.07 minutes
Figure 1.1 HPLC chromatogram of compound 34 under isocratic conditions.

Figure 1.2 HPLC chromatogram of compound 34 under gradient conditions.
11-{4-[3-(Benzyloxy)propyl]piperazino}-8-chloro-5H-dibenzo[b,e][1,4]diazepine dihydrochloride

Column: Nova-Pak HR C$_{18}$
Particle Size: 6 $\mu$m
Pore Size: 60 Å

**Dimensions:** 8 mm $\times$ 100 mm
Solvent A: 0.1% TFA / H$_2$O
Solvent B: 0.1% TFA / 90% CH$_3$CN / H$_2$O
Flow rate = 1.5 mL/min. $\lambda$ = 254 nm

**Isocratic Gradient**
Mobile phase: 60% A / 40% B
100% A (5 minutes)
100% A $\rightarrow$ 100% B (30 minutes)
100% B (5 minutes)
100% B $\rightarrow$ 100% A (5 minutes)
100% A (5 minutes)

Retention time: 10.18 minutes
25.30 minutes
Figure 1.3  HPLC chromatogram of compound 25b under isocratic conditions.
Figure 1.4  HPLC chromatogram of compound 25b under gradient conditions.