Accessory Publication

Title: Synthesis and Preliminary Pharmacological Evaluation of 4'-Arylalkyl Analogues of Clozapine. IV. The Effects of Aromaticity and Isosteric Replacement

Analytical HPLC Conditions – Accessory Publication

Waters HPLC System

Waters 600 Controller
Waters 600 Pump
Waters 486 Tunable Absorbance Detector
Waters 746 Data Module

8-Chloro-11-\{4-(4-pyridinyl)butyl\}piperazino-5H-dibenzo[b,e][1,4]diazepine 5e

Column: Waters Nova-Pak C_{18} Radial-Pak cartridge inside a Waters 8 × 10 compression module
Particle Size: 6 µm
Pore Size: 60 Å
Dimensions: 8 mm × 100 mm
Solvent A: 0.1% TFA / H\textsubscript{2}O
Solvent B: 0.1% TFA / 90% CH\textsubscript{3}CN / H\textsubscript{2}O
Flow rate = 1.5 mL/min. λ = 254 nm

Isocratic
Mobile phase: 60% A / 40% B

Gradient
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: 3.40 minutes 20.74 minutes
Analytical HPLC Chromatograms of 5e

Compound 5e: isocratic conditions

Compound 5e: gradient conditions