

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

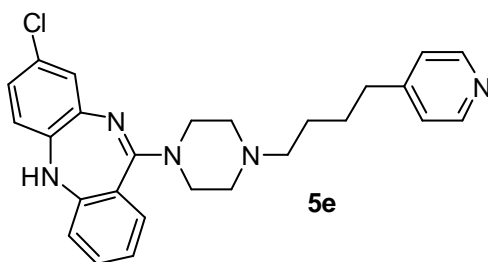
Waters 600 Controller

Waters 600 Pump

Waters 486 Tunable Absorbance Detector

Waters 746 Data Module

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



Column: Waters Nova-Pak C₁₈ 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 / H₂O

Solvent B: 0.1% TFA / 90% CH₃CN / H₂O

Flow rate = 1.5 mL/min.

λ = 254 nm

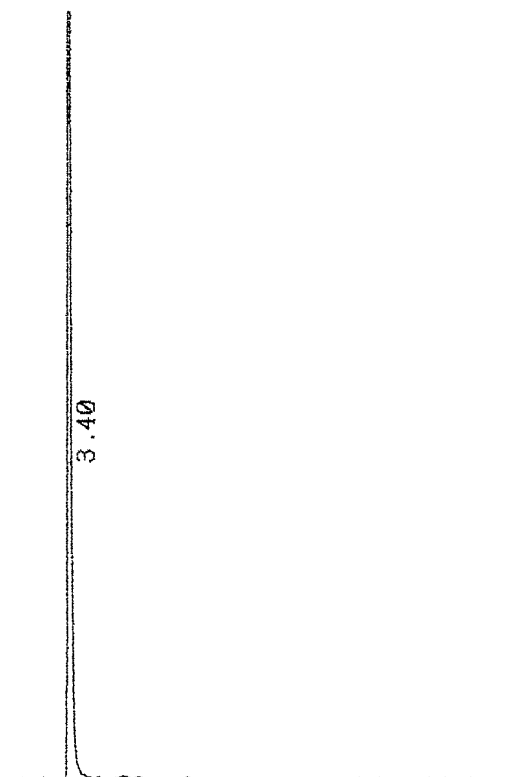
Mobile phase: **Isocratic**
60% A / 40% B

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)

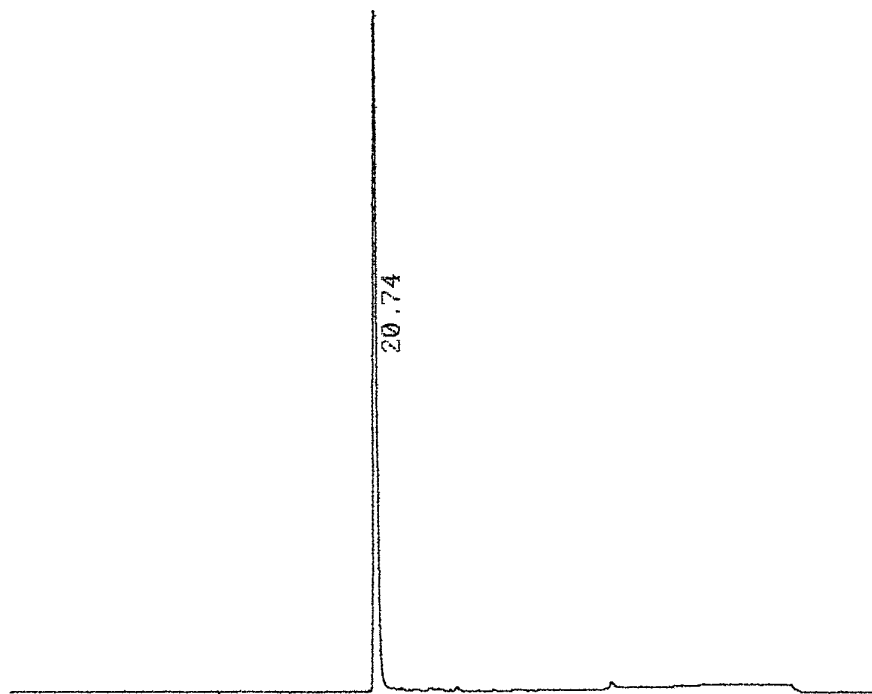
Retention time: 3.40 minutes

20.74 minutes

Analytical HPLC Chromatograms of **5e**



Compound 5e: isocratic conditions



Compound 5e: gradient conditions