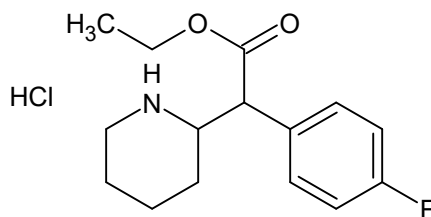




4-Fluoroethylphenidate HCl

The Drug Enforcement Administration's Special Testing and Research Laboratory generated this monograph using structurally confirmed reference material.



1. GENERAL INFORMATION

IUPAC Name: ethyl 2-(4-fluorophenyl)-2-(piperidin-2-yl)acetate

CAS#: N/A

Synonyms: ethyl (4-fluorophenyl)(piperidin-2-yl)acetate

Source: DEA Reference Material Collection

Appearance: white powder

UV_{max}(nm): Not determined

2. CHEMICAL AND PHYSICAL DATA

2.1 CHEMICAL DATA

Form	Chemical Formula	Molecular Weight	Melting Point (°C)
Base	C ₁₅ H ₂₀ FNO ₂	265.32	Not Determined
HCl	C ₁₅ H ₂₀ FNO ₂ HCl	301.78	Not Determined



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3. QUALITATIVE DATA

3.1 NUCLEAR MAGNETIC RESONANCE

Sample Preparation: Dilute analyte to ~18 mg/mL in D₂O containing TSP for 0 ppm reference and maleic acid as quantitative internal standard.

Instrument: 400 MHz NMR spectrometer
Parameters: Spectral width: at least containing -3 ppm through 13 ppm
Pulse angle: 90°
Delay between pulses: 45 seconds

¹HNMR: 4-Fluoroethylphenidate HCl; Lot # RM-180119-01; D₂O; 400MHz

