

Product Name: Abiraterone acetate

Catalog No.: 6520

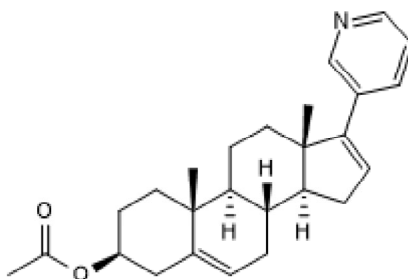
Batch No.: 1

CAS Number: 154229-18-2

IUPAC Name: (3 β)-17-(3-Pyridinyl)androsta-5,16-dien-3-yl acetate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₃₃NO₂
Batch Molecular Weight: 391.55
Physical Appearance: White solid
Solubility: DMSO to 20 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	79.76	8.5	3.58
Found	79.64	8.58	3.84

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: (3β)-17-(3-Pyridinyl)androsta-5,16-dien-3-yl acetate

Description:

Abiraterone acetate is a potent CYP17A1 inhibitor (IC₅₀ values are 17 nM and 18 nM for 17,20-lyase activity and 17α-hydroxylase activity, respectively). Inhibits intratumor androgen synthesis in prostate cancer.

Physical and Chemical Properties:

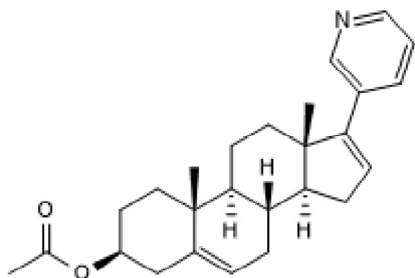
Batch Molecular Formula: C₂₆H₃₃NO₂

Batch Molecular Weight: 391.55

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Potter et al (1995) Novel steroidal inhibitors of human cytochrome P450_{17α} (17α-Hydroxylase-C_{17,20}-lyase): potential agents for the treatment of prostatic cancer. *J.Med.Chem.* **38** 2463. PMID: 7608911.

Barrie et al (1994) Pharmacology of novel steroidal inhibitors of cytochrome P450(17) alpha (17 alpha-hydroxylase/C17-20 lyase). *J.Steroid Biochem.Mol.Biol.* **50** 267. PMID: 7918112.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 mM

ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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