

**Product Name:** Abiraterone acetate

**Catalog No.:** 6520

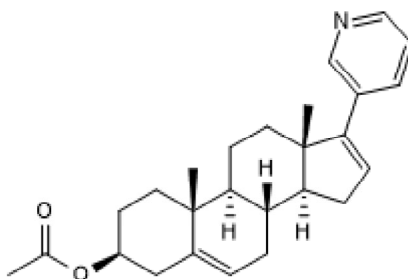
**Batch No.:** 2

CAS Number: 154229-18-2

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>26</sub>H<sub>33</sub>NO<sub>2</sub>  
**Batch Molecular Weight:** 391.55  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 20 mM  
 ethanol to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	79.76	8.5	3.58
Found	80.17	8.38	3.53

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

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**Description:**

Abiraterone acetate is a potent CYP17A1 inhibitor (IC<sub>50</sub> values are 17 nM and 18 nM for 17,20-lyase activity and 17 $\alpha$ -hydroxylase activity, respectively). Inhibits intratumor androgen synthesis in prostate cancer.

**Physical and Chemical Properties:**

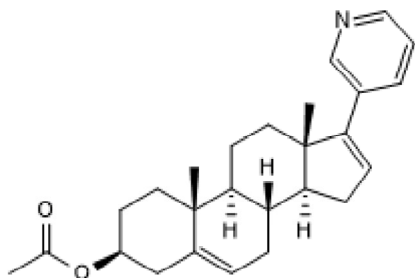
Batch Molecular Formula: C<sub>26</sub>H<sub>33</sub>NO<sub>2</sub>

Batch Molecular Weight: 391.55

Physical Appearance: Off White solid

**Minimum Purity:**  $\geq$ 98%

**Batch Molecular Structure:**



**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.

**References:**

**Potter et al** (1995) Novel steroidal inhibitors of human cytochrome P450<sub>17 $\alpha$</sub>  (17 $\alpha$ -Hydroxylase-C<sub>17,20</sub>-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.

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