

Product Name: Galeterone

Catalog No.: 6108

Batch No.: 1

CAS Number: 851983-85-2

IUPAC Name: (3β)-17-(1*H*-Benzimidazol-1-yl)androsta-5,16-dien-3-ol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₃₂N₂O.¼H₂O

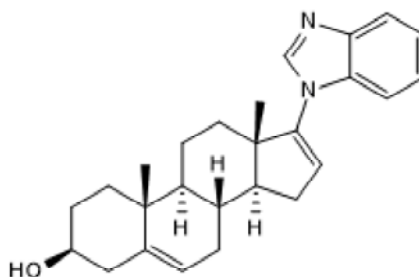
Batch Molecular Weight: 393.05

Physical Appearance: White solid

Solubility: DMSO to 50 mM
ethanol to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	79.45	8.33	7.13
Found	79.82	8.43	7.13

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

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Description:

CYP17 inhibitor (IC₅₀ = 300 nM) and androgen receptor antagonist (IC₅₀ = 384 nM in PC3-AR cells). Inhibits DHT-stimulated prostate cancer cell proliferation in vitro. Exhibits antitumor activity in SCID mice bearing prostate cancer xenografts.

Physical and Chemical Properties:

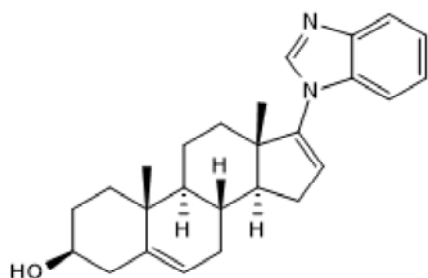
Batch Molecular Formula: C₂₆H₃₂N₂O.½H₂O

Batch Molecular Weight: 393.05

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Njar & Brodie *et al* (2015) Discovery and development of Galeterone (TOK-001 or VN/124-1) for the treatment of all stages of prostate cancer. *J.Med.Chem.* **58** 2077. PMID: 25591066.

Handratta *et al* (2005) Novel C-17-heteroaryl steroidal CYP17 inhibitors/antiandrogens: synthesis, in vitro biological activity, pharmacokinetics, and antitumor activity in the LAPC4 human prostate cancer xenograft model. *J.Med.Chem.* **48** 2972. PMID: 15828836.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 50 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. Our standard recommendations are:

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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