

Certificate of Analysis

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Product Name: Exemestane

Catalog No.: 3759

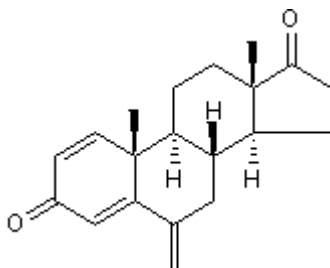
Batch No.: 1

CAS Number: 107868-30-4

IUPAC Name: 6-Methyleneandrosta-1,4-diene-3,17-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₄O₂
Batch Molecular Weight: 296.4
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 75 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +303.3 (Concentration = 1, Solvent = Chloroform)
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	81.04	8.05	
Found	80.77	8.03	

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

Product Information

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Catalog No.: 3759

Batch No.: 1

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IUPAC Name: 6-Methyleneandrosta-1,4-diene-3,17-dione

Description:

Irreversible steroidal aromatase inhibitor (IC_{50} = 20 nM). Destabilizes aromatase and lowers estrogen levels; orally active.

Physical and Chemical Properties:

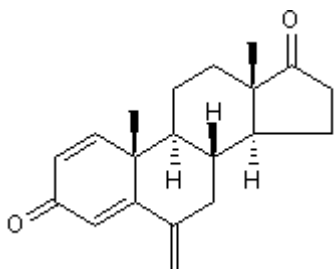
Batch Molecular Formula: $C_{20}H_{24}O_2$

Batch Molecular Weight: 296.4

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 75 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.

References:

di Salle *et al* (1992) Exemestane (FCE 24304), a new steroidal aromatase inhibitor. *J. Steroid Biochem. Molec. Bio.* **43** 137.

Goss *et al* (2004) The steroidal aromatase inhibitor exemestane prevents bone loss in ovariectomized rats. *Bone* **34** 384. PMID: 15003786.

Wang and Chen (2006) Aromatase destabilizer: novel action of exemestane, a Food and Drug Administration-approved aromatase inhibitor. *Cancer Res.* **66** 10281. PMID: 17079446.

Miller *et al* (2008) Aromatase inhibitors: are there differences between steroidal and nonsteroidal aromatase inhibitors and do they matter? *Oncologist* **13** 829. PMID: 18695261.

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