

Certificate of Analysis

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Product Name: Anastrozole

Catalog No.: 3388

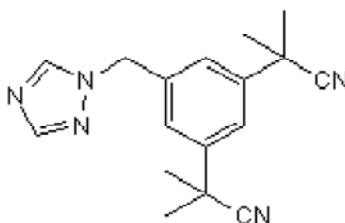
Batch No.: 1

CAS Number: 120511-73-1

IUPAC Name: α 1, α 1, α 3, α 3-Tetramethyl-5-(1*H*-1,2,4-triazol-1-ylmethyl)-1,3-benzenediacetonitrile

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₉N₅
Batch Molecular Weight: 293.37
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	69.6	6.52	23.87
Found	69.41	6.55	23.72

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

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Description:

Potent and highly selective aromatase (CYP19) inhibitor (IC₅₀ = 15 nM) that has no discernible effect on adrenocorticoid hormone synthesis. Reduces plasma estrogen levels and exhibits antitumor activity in vivo. Orally active.

Physical and Chemical Properties:

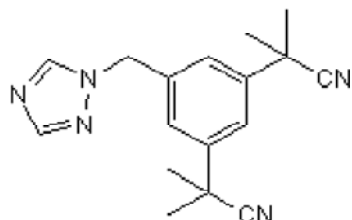
Batch Molecular Formula: C₁₇H₁₉N₅

Batch Molecular Weight: 293.37

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 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. 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.

Licensing Information:

Sold for research purposes only under agreement from AstraZeneca

References:

Buzda (2001) Anastrozole (Arimidex™) - an aromatase inhibitor for the adjuvant setting? *Br.J.Cancer* **85** 6. PMID: 11900212.

Goss and Tye (1997) Anastrozole: a new selective nonsteroidal aromatase inhibitor. *Oncology* **11** 1697. PMID: 9394367.

Dukes et al (1996) The preclinical pharmacology of "Arimidex" (anastrozole; ZD1033)-a potent, selective aromatase inhibitor. *J.Steroid Biochem.Mol.Biol.* **58** 439. PMID: 8903429.

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