Product Name: Bicalutamide
Catalog No.: 3389
Batch No.: 1
CAS Number: 90357-06-5
IUPAC Name: N-[4-Cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methylpropanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{18}H_{14}F_{4}N_{2}O_{4}S
Batch Molecular Weight: 430.37
Physical Appearance: White solid
Solubility:
- DMSO to 100 mM
- Ethanol to 10 mM
Storage: Store at RT
Batch Molecular Structure:

![Molecular Structure]

2. ANALYTICAL DATA

Melting Point: Between 191 - 193°C
HPLC: Shows 99.9% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:
- Carbon Hydrogen Nitrogen
- Theoretical: 50.23 3.28 6.51
- Found: 50.15 3.21 6.42

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

**Product Name:** Bicalutamide
**Catalog No.:** 3389  
**Batch No.:** 1

**CAS Number:** 90357-06-5  
**IUPAC Name:** \(N\)-[4-Cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methylpropanamide

**Description:**
Orally active non-steroidal androgen receptor antagonist (IC\textsubscript{50} = 190 nM). Displays peripheral selectivity and does not effect serum levels of LH and testosterone. Exhibits potent anticancer activity in vivo.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** \(C_{18}H_{14}F_{3}N_{2}O_{5}S\)
- **Batch Molecular Weight:** 430.37  
- **Physical Appearance:** White solid  
- **Minimum Purity:** >99%

**Batch Molecular Structure:**

![Molecular Structure](image)

**Storage:** Store at RT

**Solubility & Usage Info:**
- DMSO to 100 mM
- Ethanol to 10 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:**