1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{18}\text{H}_{14}\text{F}_{4}\text{N}_{2}\text{O}_{4}\text{S} \)

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:

\[
\begin{align*}
&\text{F}_3\text{C} \\
&\text{NC} \\
&\text{HO} \\
&\text{SO} \\
&\text{O}
\end{align*}
\]

2. ANALYTICAL DATA

Melting Point: Between 191 - 193°C

HPLC: Shows >99.9% purity

\(^1\text{H NMR:}\) Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>50.23</td>
<td>50.15</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>3.28</td>
<td>3.21</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>6.51</td>
<td>6.42</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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\(_{50}\) = 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: \(C_{16}H_{14}F_{6}N_{2}O_{4}S\)
Batch Molecular Weight: 430.37
Physical Appearance: White solid

Minimum Purity: >99%

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. Whenever possible solutions should be made up and used on the same day.

References:
