1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{25}\text{H}_{27}\text{NO}_2 \times \frac{1}{2}\text{H}_2\text{O} \)
Batch Molecular Weight: 382.5
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

TLC: \( R_f = 0.21 \) (Dichloromethane-2M NH3:Methanol [25:1])
HPLC: Shows >99.5% purity
\(^1\text{H NMR:}\) Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>78.5</td>
<td>7.38</td>
<td>3.66</td>
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<tr>
<td>Found</td>
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<td>7.31</td>
<td>3.8</td>
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</table>
Product Name: Endoxifen
Catalog No.: 3705  Batch No.: 2

CAS Number: 112093-28-4
IUPAC Name: (E/Z)-4-[4-[2-(Methylamino)ethoxy]phenyl]-2-phenyl-1-buten-1-yl]-phenol

Description:
Estrogen receptor α (ERα) ligand; potent antiestrogen. Metabolite of tamoxifen (Cat. No. 0999). Primary metabolite responsible for the effectiveness of tamoxifen in ER-positive breast cancer.

Physical and Chemical Properties:
- Batch Molecular Formula: C_{23}H_{22}NO_2·\frac{1}{2}H_2O
- Batch Molecular Weight: 382.5
- Physical Appearance: White solid
- Minimum Purity: >98%

Storage: Store at +4°C
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:
DMSO 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.

References: