1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** C_{29}H_{24}N_{2}O_{2}·\frac{1}{4}H_{2}O
- **Batch Molecular Weight:** 437.01
- **Physical Appearance:** Orange solid
- **Solubility:** DMSO to 100 mM
- **Storage:** Store at RT

Batch Molecular Structure:

![Molecular Structure Image]

2. ANALYTICAL DATA

- **TLC:** R_f = 0.39 (Dichloromethane:Methanol [95:5])
- **HPLC:** Shows 100% purity
- **^{1}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>79.7</td>
<td>79.77</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.65</td>
<td>5.57</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>6.41</td>
<td>6.58</td>
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</tbody>
</table>
Description:
Antagonist of RARα receptors (IC₅₀ = 31.2 nM). Displays selective affinity for RARα (relative IC₅₀ values are 1.8, 432 and 535 nM for RARα, RARγ and RARβ respectively).

Physical and Chemical Properties:
Batch Molecular Formula: C₂₉H₂₄N₂O₄·¾H₂O
Batch Molecular Weight: 437.01
Physical Appearance: Orange solid
Minimum Purity: >99%

References: