1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{27}\text{H}_{25}\text{F}_{2}\text{N}_{3}\text{OS} \)

Batch Molecular Weight: 477.57

Physical Appearance: Off White solid

Solubility:
- ethanol to 25 mM
- DMSO to 100 mM

Storage: Store at +4°C

2. ANALYTICAL DATA

TLC: \( R_f = 0.4 \) (Chloroform:Methanol [95:5])

HPLC: Shows 99.1% purity

\(^1\text{H} \text{NMR:} \) 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>67.9</td>
<td>5.28</td>
<td>8.8</td>
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<tr>
<td>Found</td>
<td>67.61</td>
<td>5.23</td>
<td>8.67</td>
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</table>

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

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Product Information

Product Name: Ritanserin
Catalog No.: 1955
Batch No.: 10

CAS Number: 87051-43-2
IUPAC Name: 6-[2-[[4-[[Bis(4-fluorophenyl)methylene]-1-piperidinyl]ethyl]-7-methyl-5H-thiazolo[3,2-a]pyrimidin-5-one

Description:
Potent and long-acting 5-HT2 receptor antagonist (Kᵢ = 0.39 nM). Anxiolytic in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C27H26F2N5OS
Batch Molecular Weight: 477.57
Physical Appearance: Off White solid
Minimum Purity: >99%

Storage:
Store at +4°C

Solubility & Usage Info:
ethanol to 25 mM
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: