Product Name: Risperidone
Catalog No.: 2865  Batch No.: 1
CAS Number: 106266-06-2
IUPAC Name: 3-[2-[4-(6-Fluoro-1,2-benzisoxazol-3-yl)-1-piperidinyl]ethyl]-6,7,8,9-tetrahydro-2-methyl-4H-pyrido[1,2-a]pyrimidin-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: C_{23}H_{27}FN_{4}O_{2}·\frac{1}{4}H_{2}O
   Batch Molecular Weight: 414.98
   Physical Appearance: White solid
   Solubility: DMSO to 10 mM
               ethanol to 10 mM
   Storage: Store at +4°C
   Batch Molecular Structure:

2. ANALYTICAL DATA

   HPLC: Shows >99.7% purity
   1H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
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<tbody>
<tr>
<td>Carbon</td>
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<tr>
<td>Hydrogen</td>
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<tr>
<td>Nitrogen</td>
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<td>13.49</td>
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</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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Description:
A typical antipsychotic agent that displays 5-HT\textsubscript{2A} receptor antagonism. Also displays high affinity at D\textsubscript{2} receptors (K\textsubscript{d} values are 0.4 and 3.13 nM for 5-HT\textsubscript{2A} and D\textsubscript{2} receptors respectively).

Physical and Chemical Properties:
Batch Molecular Formula: C\textsubscript{23}H\textsubscript{27}FN\textsubscript{4}O\textsubscript{2}·\textsubscript{1/4}H\textsubscript{2}O
Batch Molecular Weight: 414.98
Physical Appearance: White solid
Minimum Purity: >99%

Storage: Store at +4°C

Solubility & Usage Info:
DMSO to 10 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.

References: