Product Name: Zaleplon
CAS Number: 151319-34-5
IUPAC Name: N-[3-(Cyanopyrazolo[1,5-a]pyrimidin-7-yl)phenyl]-N-ethylacetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{17}H_{15}N_{5}O

Batch Molecular Weight: 305.33

Physical Appearance: White solid

Solubility:
- DMSO to 100 mM
- Ethanol to 10 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:

![Molecular Structure](image)

2. ANALYTICAL DATA

HPLC: Shows 99.6% purity

^1H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>66.87</td>
<td>4.95</td>
</tr>
<tr>
<td>Found</td>
<td>66.95</td>
<td>4.99</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Zaleplon
CAS Number: 151319-34-5
IUPAC Name: N-[3-(Cyanopyrazolo[1,5-a]pyrimidin-7-yl)phenyl]-N-ethylacetamide

Description:
Non-benzodiazepine agent that acts as an agonist at the benzodiazepine site. Displays hypnotic, anxiolytic, myorelaxant and anticonvulsant activity.

Physical and Chemical Properties:
Batch Molecular Formula: C$_{17}$H$_{13}$N$_{3}$O
Batch Molecular Weight: 305.33
Physical Appearance: White solid
Minimum Purity: >99%

Storage: Desiccate 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
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.

Other Information:
INFORMATION FOR CUSTOMERS IN THE UK ONLY
This product is a Schedule 4.1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

INFORMATION FOR CUSTOMERS IN THE USA ONLY
This product is a Schedule IV DEA controlled substance and customers in the USA are required to hold a controlled substance registration in order to purchase and possess this material (in accordance with Title 21 code of federal regulations part 1300 to end).

References: