1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** $\text{C}_{22}\text{H}_{27}\text{N}_{3}\text{O}.2\text{HCl.H}_2\text{O}$

**Batch Molecular Weight:** 440.41

**Physical Appearance:** White solid

**Solubility:**
- Water to 50 mM
- DMSO to 100 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**

2. ANALYTICAL DATA

**HPLC:** Shows 98.7% 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>57.9</td>
<td>6.85</td>
<td>9.14</td>
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<tr>
<td>Found</td>
<td>58.21</td>
<td>6.57</td>
<td>9.21</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: PD 168568 dihydrochloride
Catalog No.: 3529
Batch No.: 1

CAS Number: 1782532-06-2
IUPAC Name: 3-[2-[4-(3,4-dimethylphenyl)-1-piperazinyl]ethyl]-2,3-dihydro-1H-isooindol-1-one dihydrochloride

Description:
Potent and selective dopamine D\textsubscript{4} receptor antagonist (K\textsubscript{i} values are 8.8 and 1842 nM at D\textsubscript{4} and D\textsubscript{2} receptors respectively). Reverses amphetamine-stimulated locomotion in vivo and is orally active.

Physical and Chemical Properties:
Batch Molecular Formula: C\textsubscript{22}H\textsubscript{27}N\textsubscript{2}O\cdot 2HCl\cdot H\textsubscript{2}O
Batch Molecular Weight: 440.41
Physical Appearance: White solid
Minimum Purity: >98%

Storage: Desiccate at RT

Solubility & Usage Info:
- water to 50 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: