1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{22}\text{H}_{30}\text{N}_{6}\text{O}_{4}\text{S.C}_{6}\text{H}_{8}\text{O}_{7}.\frac{1}{2}\text{H}_{2}\text{O} \)
Batch Molecular Weight: 671.2
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Desiccate at RT

2. ANALYTICAL DATA

HPLC: Shows 100% purity
\(^1\text{H} \text{NMR:} \) 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>50.11</td>
<td>5.78</td>
</tr>
<tr>
<td>Found</td>
<td>49.95</td>
<td>5.76</td>
</tr>
</tbody>
</table>
**Product Name:** Sildenafil citrate  
**CAS Number:** 171599-83-0  
**IUPAC Name:** 1-[[3-(4,7-Dihydro-1-methyl-7-oxo-3-propyl-1H-pyrazolo[4,3-d][pyrimidin-5-yl]-4-ethoxyphenyl]sulfonyl]-4-methylpiperazine citrate

**Description:**

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₂₂H₂₃N₆O₅S.C₆H₈O₇.H₂O
- **Batch Molecular Weight:** 671.2
- **Physical Appearance:** White solid
- **Minimum Purity:** >99%

**Storage:** Desiccate at RT

**Solubility & Usage Info:**
- **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.

**Licensing Information:**
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**References:**