1. PHYSICAL AND CHEMICAL PROPERTIES

   **Batch Molecular Formula:** C$_{21}$H$_{21}$ClN$_4$OS.HCl.H$_2$O
   **Batch Molecular Weight:** 467.42
   **Physical Appearance:** Pale orange solid
   **Solubility:** DMSO to 10 mM
   **Storage:** Store at RT

2. ANALYTICAL DATA

   **HPLC:** Shows 100% purity
   **$^{1}$H NMR:** Consistent with structure
   **Mass Spectrum:** Consistent with structure
   **Microanalysis:** Carbon Hydrogen Nitrogen
   
   Theoretical: 53.96  5.18  11.99
   Found: 54.14  5.18  11.99

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** Ziprasidone hydrochloride  
**Catalog No.:** 3085  
**Batch No.:** 2

**CAS Number:** 122883-93-6  
**IUPAC Name:** 5-[[2-[4-(1,2-Benzothiazol-3-yl)-1-piperazinyl]ethyl]-6-chloro-1,3-dihydro-2H-indol-2-one hydrochloride

**Description:**  
Atypical antipsychotic that displays combined serotonin and dopamine receptor antagonism. Displays high affinity at 5-HT$_{2A}$ receptors with a 5-HT$_{2A}$/D$_2$ affinity ratio greater than any other clinically available atypical antipsychotics (pK$_a$ values are 9.38, 8.88, 8.69, 8.47, 8.32, 8.14, 7.98, 7.49, 7.33 and 6.28 for 5-HT$_{2A}$, 5-HT$_{2C}$, 5-HT$_{1D}$, 5-HT$_{1A}$, D$_2$, D$_3$, α$_1$, D$_4$, H$_1$ and D$_1$ receptors respectively).

**Physical and Chemical Properties:**  
Batch Molecular Formula: C$_{21}$H$_{21}$ClN$_4$O$_5$.HCl.H$_2$O  
Batch Molecular Weight: 467.42  
Physical Appearance: Pale orange solid  
Minimum Purity: >99%

**Storage:** Store at RT

**Solubility & Usage Info:**  
DMSO 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 aliquotted 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:**  
Sold for research purposes under agreement from Pfizer Inc.

**References:**

