1. PHYSICAL AND CHEMICAL PROPERTIES

   **Batch Molecular Formula:** $\text{C}_{19}\text{H}_{20}\text{N}_2\text{O}_3\text{S}\cdot\text{HCl}$
   **Batch Molecular Weight:** 392.9
   **Physical Appearance:** White solid
   **Solubility:** DMSO to 25 mM
   **Storage:** Desiccate at RT
   **Batch Molecular Structure:**

   ![Molecular Structure](image)

2. ANALYTICAL DATA

   **Melting Point:** Between 190 - 192°C
   **HPLC:** Shows 100% purity
   **$^1\text{H NMR:}$** Consistent with structure
   **Mass Spectrum:** Consistent with structure
   **Microanalysis:**

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
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<tr>
<td>H</td>
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</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Pioglitazone hydrochloride

CAS Number: 112529-15-4
IUPAC Name: 5-[[4-[2-(5-Ethyl-2-pyridinyl)-ethoxy]phenyl]methyl]-2,4-thiazolidinedione hydrochloride

Description:
Selective PPARγ agonist (EC<sub>50</sub> = 0.69 μM). Thiazolidinedione (TZD) derivative and antidiabetic agent; improves insulin sensitivity.

Physical and Chemical Properties:
Batch Molecular Formula: C<sub>19</sub>H<sub>23</sub>N<sub>2</sub>O<sub>3</sub>S.HCl
Batch Molecular Weight: 392.9
Physical Appearance: White solid
Minimum Purity: >99%

Storage: Desiccate at RT

Solubility & Usage Info:
DMSO to 25 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:

