1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( \text{C}_{24}\text{H}_{27}\text{NO}_{5}\text{S} \)
   Batch Molecular Weight: 441.54
   Physical Appearance: Off White solid
   Solubility: DMSO to 100 mM
   ethanol to 10 mM with gentle warming
   Storage: Store at -20°C

2. ANALYTICAL DATA

   HPLC: Shows 98.6% purity
   \(^1\text{H} \text{NMR:} \) 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>Carbon</td>
<td>65.28</td>
<td>65.26</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>6.16</td>
<td>6.29</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>3.17</td>
<td>3.2</td>
</tr>
</tbody>
</table>
Product Name: Troglitazone

CAS Number: 97322-87-7

IUPAC Name: 5-[[4-(3,4-Dihydro-6-hydroxy-2,5,7,8-tetramethyl-2H-1-benzopyran-2-yl)methoxy]phenyl]methyl]-2,4-thiazolidinedione

Description:
Selective PPARγ receptor agonist (EC50 values are 780 and 555 nM at murine and human PPARγ receptors respectively). Displays no activity at PPARα or PPARδ receptors. Antidiabetic agent; exerts potent glucose-lowering effects in insulin-resistant diabetic mice. Displays anti-invasive effect on human breast cancer cells; reduces migration, adhesion and spreading on fibronectin-coated plates. Also inhibits cell growth of hematopoietic cell lines. Inhibits lamellipodia formation and actin polymerization.

Physical and Chemical Properties:
Batch Molecular Formula: C24H37NO5S
Batch Molecular Weight: 441.54
Physical Appearance: Off White solid
Minimum Purity: >97%

Storage: Store at -20°C

Solubility & Usage Info:
DMSO to 100 mM
ethanol to 10 mM with gentle warming

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: