1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{20}H_{24}O_{4}
Batch Molecular Weight: 328.4
Physical Appearance: Off-white solid
Solubility: DMSO to 50 mM, ethanol to 50 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 99.4% purity
\(^1\)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>73.15</td>
<td>7.37</td>
<td>0</td>
</tr>
<tr>
<td>Found</td>
<td>73.28</td>
<td>7.26</td>
<td>0.1</td>
</tr>
</tbody>
</table>
Description:
GC 1 is a thyromimetic; high affinity agonist at thyroid hormone receptor (TR) β and TRα receptors ($K_v$ values are 67 and 440 pM respectively). Displays 5- and 100-fold greater potency than the endogenous agonist $T_3$ in vitro at TRα, and TRβ receptors respectively. Promotes reverse cholesterol transport in chow- and fat-fed mice. Induces proliferation of hepatocytes and pancreatic acinar cells in rats independent of prior tissue injury.

Physical and Chemical Properties:
Batch Molecular Formula: C$_{20}$H$_{24}$O$_4$
Batch Molecular Weight: 328.4
Physical Appearance: Off-white solid
Minimum Purity: ≥98%

Storage: Store at -20°C

Solubility & Usage Info:
DMSO to 50 mM
ethanol to 50 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: