1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{18}H_{28}N_{2}O_{3}S \cdot HCl \)

Batch Molecular Weight: 388.95

Physical Appearance: White solid

Solubility:
- water to 20 mM
- phosphate buffered saline to 5 mM
- DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:

\[
\text{[Image of molecular structure]}
\]

2. ANALYTICAL DATA

TLC: \( R_f = 0.21 \) (Dichloromethane:Methanol [9:1])

HPLC: Shows 99.5% purity

\(^1\)H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: \( [\alpha]_D = +86.2 \) (Concentration = 0.47, Solvent = DMSO)

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>55.58</td>
<td>7.52</td>
<td>7.2</td>
</tr>
<tr>
<td>Found</td>
<td>55.26</td>
<td>7.48</td>
<td>7.16</td>
</tr>
</tbody>
</table>
Product Name: SB 269970 hydrochloride
Catalog No.: 1612
Batch No.: 10

CAS Number: 261901-57-9
IUPAC Name: (2R)-1-[(3-Hydroxyphenyl)sulfonyl]-2-[2-(4-methyl-1-piperidinyl)ethyl]pyrrolidine hydrochloride

Description:
Potent and selective 5-HT7 receptor antagonist (pKᵢ values are 8.9, 7.2 and 6.0 for 5-HT7A, 5-HT7A and 5-HT7B and < 6.0 for 5-HT7A, 5-HT7B, 5-HT7F, 5-HT7A, 5-HT7B and 5-HT7E receptors respectively). Brain penetrant in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₈H₂₈N₂O₇S.HCl
Batch Molecular Weight: 388.95
Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at +4°C

Solubility & Usage Info:
- Water to 20 mM
- Phosphate buffered saline to 5 mM
- 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:
Sold for research purposes under agreement from GlaxoSmithKline.

References:
