1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** $\text{C}_{23}\text{H}_{24}\text{N}_2\text{O}.2\text{HBr}.2\text{H}_2\text{O}$

**Batch Molecular Weight:** 542.31

**Physical Appearance:** Cream solid

**Solubility:**
- Water to 100 mM
- DMSO to 100 mM

**Storage:** Store at RT

**Batch Molecular Structure:**

![Molecular Structure](image)

2. ANALYTICAL DATA

**TLC:** $R_f = 0.05$ (Methanol)

**HPLC:** Shows 99.4% purity

**$^1$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>Carbon</td>
<td>50.94</td>
<td>50.81</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.58</td>
<td>5.3</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>5.17</td>
<td>4.99</td>
</tr>
</tbody>
</table>
Product Name: SB 205607 dihydrobromide
Catalog No.: 0921
Batch No.: 5
CAS Number: 1217628-73-3
IUPAC Name: \((R^*,S^*)-(\pm)-2\text{-Methyl-4aa-(3-hydroxyphenyl)-1,2,3,4,4a,5,12,12aa-octahydroquinolino[2,3,3-g]isoquinoline dihydrobromide}

Description:
The first described non-peptide \(\delta\), opioid receptor agonist with very high affinity and selectivity for the \(\delta\) subtype (\(K\) values are 1.12, 2320 and 1790 nM at \(\delta\), \(\mu\) and \(\kappa\) receptors respectively).

Physical and Chemical Properties:
Batch Molecular Formula: \(C_{23}H_{25}N_2O.2HBr.2H_2O\)
Batch Molecular Weight: 542.31
Physical Appearance: Cream solid
Minimum Purity: >97%

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:
water to 100 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.

References: