1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( C_{17}H_{18}BrNO\cdot HBr \)
   Batch Molecular Weight: \( 413.15 \)
   Physical Appearance: White solid
   Solubility:
   - Water to 5 mM with gentle warming
   - Ethanol to 25 mM with gentle warming
   - DMSO to 100 mM
   Storage: Desiccate at RT
   Batch Molecular Structure:

2. ANALYTICAL DATA

   TLC: \( R_f = 0.27 \) (Dichloromethane:Methanol [95:5])
   HPLC: Shows >99.7% purity
   \(^1H\) NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:
   \[
   \begin{array}{ccc}
   & \text{Carbon} & \text{Hydrogen} & \text{Nitrogen} \\
   \text{Theoretical} & 49.42 & 4.64 & 3.39 \\
   \text{Found} & 49.33 & 4.49 & 3.62 \\
   \end{array}
   \]
Product Name: SKF 83566 hydrobromide
Catalog No.: 1586  Batch No.: 10

CAS Number: 108179-91-5
IUPAC Name: 8-Bromo-2,3,4,5-tetrahydro-3-methyl-5-phenyl-1H-3-benzazepin-7-ol hydrobromide

Description:
Potent and selective D\textsubscript{1}-like dopamine receptor antagonist (K\textsubscript{i} \sim 0.56 nM for D\textsubscript{1}; K\textsubscript{a} = 2 \mu M for D\textsubscript{2}). Also antagonist at the vascular 5-HT\textsubscript{2} receptor (K\textsubscript{i} = 11 nM). Displays selective inhibition of adenylyl cyclase 2 (AC2); inactive against AC1 or AC5. Centrally active following systemic administration in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C_{17}H_{15}BrNO.HBr
Batch Molecular Weight: 413.15
Physical Appearance: White solid
Minimum Purity: >98%

Batch Molecular Structure:

![Batch Molecular Structure Diagram]

Storage: Desiccate at RT

Solubility & Usage Info:
- Water to 5 mM with gentle warming
- Ethanol to 25 mM with gentle warming
- 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: