Product Name: BD 1047 dihydrobromide
Catalog No.: 0956
Batch No.: 4
CAS Number: 138356-21-5
IUPAC Name: N-[2-(3,4-Dichlorophenyl)ethyl]-N-methyl-2-(dimethylamino)ethylamine dihydrobromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $\text{C}_{13}\text{H}_{20}\text{Cl}_{2}\text{N}_{2}\cdot 2\text{HBr}$
Batch Molecular Weight: 437.04
Physical Appearance: White crystals
Solubility:
- water to 50 mM
- DMSO to 50 mM
Storage: Desiccate at +4°C

2. ANALYTICAL DATA

TLC: $R_f = 0.2$ (Chloroform:Methanol [9:1])
HPLC: Shows >99.6% purity
$^1\text{H NMR}$: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
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<tr>
<td>C</td>
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</tbody>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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IUPAC Name: N-[2-(3,4-Dichlorophenyl)ethyl]-N-methyl-2-(dimethylamino)ethylamine dihydrobromide

Description:
\( \sigma \) receptor antagonist, exhibiting a similar binding profile to that of BD 1063 (Cat. No. 0883) but with higher affinity (approximately 10-fold) at both \( \sigma_1 \) and \( \sigma_2 \) sites.

Physical and Chemical Properties:
Batch Molecular Formula: C\(_{13}\)H\(_{20}\)Cl\(_2\)N\(_2\).2HBr
Batch Molecular Weight: 437.04
Physical Appearance: White crystals
Minimum Purity: >99%

Storage: Desiccate at +4°C

Solubility & Usage Info:
water to 50 mM
DMSO 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: