**Product Name:** DSP-4  
**Catalog No.:** 2958  
**Batch No.:** 4  

**CAS Number:** 40616-75-9  
**IUPAC Name:** \( N-(2\text{-Chloroethyl})-N\text{-ethyl-2-bromobenzylamine hydrochloride} \)

1. **PHYSICAL AND CHEMICAL PROPERTIES**

   **Batch Molecular Formula:** \( \text{C}_{11}\text{H}_{15}\text{BrClN.HCl} \)  
   **Batch Molecular Weight:** 313.06  
   **Physical Appearance:** White solid  
   **Solubility:**  
   - water to 100 mM  
   - ethanol to 100 mM  
   **Storage:** Store at -20°C  
   **Batch Molecular Structure:**

   ![Molecular Structure](image)

2. **ANALYTICAL DATA**

   **HPLC:** Shows 99% 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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</thead>
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<tr>
<td>Carbon</td>
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<tr>
<td>Hydrogen</td>
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<td>5.09</td>
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<tr>
<td>Nitrogen</td>
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<td>4.44</td>
</tr>
</tbody>
</table>

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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Name: DSP-4
Catalog No.: 2958  Batch No.: 4

CAS Number: 40616-75-9
IUPAC Name: N-(2-Chloroethyl)-N-ethyl-2-bromobenzylamine hydrochloride

Description:
Adrenergic neurotoxin. Displays neurotoxic effects on both peripheral and central noradrenergic neurons.

Physical and Chemical Properties:
- Batch Molecular Formula: C_{11}H_{13}BrClIN.HCl
- Batch Molecular Weight: 313.06
- Physical Appearance: White solid
- Minimum Purity: >98%
- Storage: Store at -20°C

Solubility & Usage Info:
- water to 100 mM
- ethanol to 100 mM
CAUTION - This product is extremely hygroscopic and we recommend that it is desiccated upon arrival. We also recommend that solutions are freshly prepared before use.

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: