**Product Name:** Dexfenfluramine hydrochloride  
**Catalog No.:** 2695  
**Batch No.:** 2  
**CAS Number:** 3239-45-0  
**EC Number:** 221-806-0  
**IUPAC Name:** (S)-N-Ethyl-α-methyl-3-(trifluoromethyl)benzeneethanamine hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** \( \text{C}_{12}\text{H}_{16}\text{F}_{3}\text{N}.\text{HCl} \)
- **Batch Molecular Weight:** 267.72
- **Physical Appearance:** Off White solid
- **Solubility:**  
  - Water to 100 mM  
  - DMSO to 100 mM
- **Storage:** Desiccate at RT
- **Batch Molecular Structure:**

![Molecular Structure](image)

### 2. ANALYTICAL DATA

- **HPLC:** Shows 95.1% purity
- **\(^1\)H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Optical Rotation:** \([\alpha]_D = +8.9 \) (Concentration = 2.83, Solvent = Water)
- **Microanalysis:**
<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
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<tbody>
<tr>
<td>Carbon</td>
<td>53.84</td>
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<tr>
<td>Hydrogen</td>
<td>6.4</td>
<td>6.26</td>
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<tr>
<td>Nitrogen</td>
<td>5.23</td>
<td>5.13</td>
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</tbody>
</table>

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

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**Product Information**

<table>
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<th>Product Name:</th>
<th>Dexfenfluramine hydrochloride</th>
<th>Catalog No.:</th>
<th>2695</th>
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<tr>
<td>CAS Number:</td>
<td>3239-45-0</td>
<td>Batch No.:</td>
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<td>(S)-N-Ethyl-α-methyl-3-(trifluoromethyl)benzeneethanamine hydrochloride</td>
<td>EC Number:</td>
<td>221-806-0</td>
</tr>
</tbody>
</table>

**Description:**
Indirectly agonizes serotonin receptors via inhibition of 5-HT re-uptake and stimulation of 5-HT release. Anorectic agent; decreases growth hormone, insulin, leptin, fat mass, lean mass and increases ghrelin in diet-switched diet-induced obese mice.

**Physical and Chemical Properties:**
- Batch Molecular Formula: C₁₂H₁₃F₃N·HCl
- Batch Molecular Weight: 267.72
- Physical Appearance: Off White solid

**Batch Molecular Structure:**

```
   CF₃
  /   /
 /    /
H-N-\   -HCl
   |   |
   \   /```

**Storage:** Desiccate 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.

**Other Information:**

**INFORMATION FOR CUSTOMERS IN THE USA ONLY**

This product is a Schedule IV DEA controlled substance and customers in the USA are required to hold a controlled substance registration in order to purchase and possess this material (in accordance with Title 21 code of federal regulations part 1300 to end).

**References:**