1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{32}H_{39}NO_4 \cdot HCl$
Batch Molecular Weight: 538.12
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Desiccate at +4°C

2. ANALYTICAL DATA

HPLC: Shows >99.9% purity
$^1$H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th>Component</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>71.42</td>
<td>71.43</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>7.49</td>
<td>7.5</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>2.6</td>
<td>2.43</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Fexofenadine hydrochloride

**CAS Number:** 153439-40-8

**IUPAC Name:** α,α-Dimethyl-4-[1-hydroxy-4-[4-(hydroxydiphenylmethyl)-1-piperidinyl]butyl]-benzeneacetic acid hydrochloride

**Description:**
Selective histamine H₁ receptor antagonist (pKᵢ = 8.1). Active metabolite of terfenadine that displays non-sedating antiallergic effects.

**Physical and Chemical Properties:**

- **Batch Molecular Formula:** C₆₂H₅₇NO₁₂.HCl
- **Batch Molecular Weight:** 538.12
- **Physical Appearance:** White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**

![Batch Molecular Structure](image)

**Storage:** Desiccate at +4°C

**Solubility & Usage Info:**
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:**