Product Name: Fexofenadine hydrochloride
Catalog No.: 2429
Batch No.: 1
CAS Number: 153439-40-8
IUPAC Name: α,α-Dimethyl-4-[1-hydroxy-4-[4-(hydroxydiphenylmethyl)-1-piperidiny]butyl]-benzeneacetic acid hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \(\text{C}_{32}\text{H}_{39}\text{NO}_{4}\cdot\text{HCl}\)
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
\(^1\text{H NMR:}\) Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis: Carbon Hydrogen Nitrogen

<table>
<thead>
<tr>
<th>Theoretical</th>
<th>Found</th>
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</thead>
<tbody>
<tr>
<td>71.42</td>
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<tr>
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<tr>
<td>2.6</td>
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</tbody>
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Description:
Fexofenadine hydrochloride is a selective histamine H\textsubscript{1} receptor antagonist (pK\textsubscript{d} = 8.1). Active metabolite of Terfenadine (Cat. No. 3948) that displays non-sedating antiallergic effects. Fexofenadine hydrochloride counteracts histamine mediated immune suppression and improves immunotherapy response.

Physical and Chemical Properties:
Batch Molecular Formula: C\textsubscript{32}H\textsubscript{39}NO\textsubscript{4}.HCl
Batch Molecular Weight: 538.12
Physical Appearance: White solid
Minimum Purity: \(\geq\)99%

Batch Molecular Structure:

Storage: Desiccated 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: