Product Name: Ketotifen fumarate  
Catalog No.: 0784  
Batch No.: 7
CAS Number: 34580-14-8  
EC Number: 252-100-0
IUPAC Name: 4,9-Dihydro-4-(1-methyl-4-piperidinylidene-10H-benzo[4,5]cyclohepta[1,2-b]thiophen-10-one fumarate

1. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batch Molecular Formula:</td>
<td>C_{19}H_{19}NOS.C_{4}H_{4}O_{4}</td>
</tr>
<tr>
<td>Batch Molecular Weight:</td>
<td>425.5</td>
</tr>
<tr>
<td>Physical Appearance:</td>
<td>White solid</td>
</tr>
<tr>
<td>Solubility:</td>
<td>DMSO to 100 mM</td>
</tr>
<tr>
<td>Storage:</td>
<td>Store at RT</td>
</tr>
<tr>
<td>Batch Molecular Structure:</td>
<td><img src="image" alt="Molecular Structure" /></td>
</tr>
</tbody>
</table>

2. ANALYTICAL DATA

<table>
<thead>
<tr>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPLC:</td>
<td>Shows 99.7% purity</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\^H NMR:                    | Consistent with structure                    |
| Mass Spectrum:            | Consistent with structure                    |
| Microanalysis:            |                                             |
|                           | Carbon Hydrogen Nitrogen                    |
|                           | Theoretical 64.92 5.45 3.29                 |
|                           | Found 64.76 5.47 3.27                      |


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**Product Information**

**Product Name:** Ketotifen fumarate  
**Catalog No.:** 0784  
**Batch No.:** 7

**CAS Number:** 34580-14-8  
**EC Number:** 252-100-0

**IUPAC Name:** 4,9-Dihydro-4-(1-methyl-4-piperidinylidene-10H-benzo[4,5]cyclohepta[1,2-b]thiophen-10-one fumarate

**Description:**
An H1 receptor antagonist.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C16H19NOS.C4H4O4
- **Batch Molecular Weight:** 425.5
- **Physical Appearance:** White solid
- **Minimum Purity:** >99%

**Storage:** Store at RT

**Solubility & Usage Info:**
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.

**References:**
Merck Index 5319.


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<table>
<thead>
<tr>
<th>bio-techne.com</th>
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<th>China</th>
<th>Europe Middle East Africa</th>
<th>Rest of World</th>
</tr>
</thead>
<tbody>
<tr>
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