Product Name: T 0156 hydrochloride
Catalog No.: 1676
Batch No.: 1

CAS Number: 324572-93-2
IUPAC Name: 1,2-Dihydro-2-[(2-methyl-4-pyridinyl)methyl]-1-oxo-8-(2-pyrimidinylmethoxy)-4-(3,4,5-trimethoxyphenyl)-2,7-naphthyridine-3-carboxylic acid methyl ester hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{31}H_{29}N_{5}O_{7}.HCl.H_{2}O
Batch Molecular Weight: 638.08
Physical Appearance: White solid
Solubility: ethanol to 25 mM with gentle warming
Storage: Desiccate at +4°C

2. ANALYTICAL DATA

TLC: \( R_{f} = 0.45 \) (Dichloromethane:Methanol [9:1])
Melting Point: At 174°C (dec)
HPLC: Shows 99.6% purity
\( ^{1}H \) NMR: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
<th>% Difference</th>
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<tbody>
<tr>
<td>Carbon</td>
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<td>0.19</td>
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<tr>
<td>Hydrogen</td>
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<td>Nitrogen</td>
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<td>10.75</td>
<td>0.23</td>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Information

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IUPAC Name: 1,2-Dihydro-2-[(2-methyl-4-pyridinyl)methyl]-1-oxo-8-(2-pyrimidinylmethoxy)-4-(3,4,5-trimethoxyphenyl)-2,7-naphthyridine-3-carboxylic acid methyl ester hydrochloride

Description:
Potent and selective inhibitor of phosphodiesterase type 5 (PDE5); more selective than sildenafil (IC_{50} values are 0.23, 56 and > 63000 nM for T 0156 and 3.6, 29 and > 270 nM for sildenafil at PDE5, PDE6 and PDEs 1 - 4 respectively). Selective over 30 other enzymes and receptors (IC_{50} > 10 mM) and potentiates electrical field stimulation-induced relaxation of isolated rabbit corpus cavernosum. Active in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C_{31}H_{29}N_{5}O_{7}.HCl.H_{2}O
Batch Molecular Weight: 638.08
Physical Appearance: White solid
Minimum Purity: >99%

Batch Molecular Structure:

Storage: Desiccate at +4°C

Solubility & Usage Info:
ethanol to 25 mM with gentle warming
DMSO to 25 mM with gentle warming

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 aliquotted 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.

Licensing Information:
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References: