Product Name: Azilsartan  
Catalog No.: 4553  
Batch No.: 1  
CAS Number: 147403-03-0  
IUPAC Name: 2-Ethoxy-1-[[2'(4,5-dihydro-5-oxo-1,2,4-oxadiazol-3-yl)biphenyl-4-yl]methyl]benzimidazole-7-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: $\text{C}_{25}\text{H}_{20}\text{N}_{4}\text{O}_{5}\cdot\frac{1}{4}\text{H}_{2}\text{O}$
   Batch Molecular Weight: 460.95
   Physical Appearance: Off-white solid
   Solubility: DMSO to 100 mM, ethanol to 10 mM with gentle warming
   Storage: Store at RT

2. ANALYTICAL DATA

   HPLC: Shows 98.3% purity
   $^1$H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:
<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
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<tr>
<td>Theoretical</td>
<td>65.14</td>
<td>4.48</td>
<td>12.15</td>
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<tr>
<td>Found</td>
<td>65.19</td>
<td>4.31</td>
<td>12.21</td>
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</tbody>
</table>
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Description:
Potent angiotensin II type 1 (AT₁) receptor inverse agonist (IC₅₀ = 2.6 nM at the human AT₁ receptor). Inhibits angiotensin II-induced IP1 accumulation in COS-7 cells; decreases maximal contraction of rabbit aortic strips in a concentration-dependent manner (pD₂ = 9.9). Antihypertensive; prevents vascular cell proliferation and expression of PAI-1.

Physical and Chemical Properties:
Batch Molecular Formula: C₉₁H₆₈N₁₀O₁₂.1/₄H₂O
Batch Molecular Weight: 460.95
Physical Appearance: Off-white solid

Minimum Purity: >98%

Storage: Store at RT

Solubility & Usage Info:
DMSO to 100 mM  
ethanol to 10 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 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:
