

**Product Name:** ZD 7155 hydrochloride

**Catalog No.:** 1211

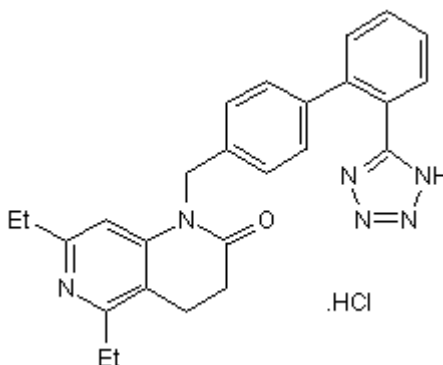
**Batch No.:** 5

**CAS Number:** 146709-78-6

**IUPAC Name:** 5,7-Diethyl-3,4-dihydro-1-[[2'-(1*H*-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl]-1,6-naphthyridin-2(1*H*)-one hydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	$C_{26}H_{26}N_6O \cdot HCl \cdot \frac{1}{2}H_2O$
<b>Batch Molecular Weight:</b>	484
<b>Physical Appearance:</b>	off-white solid
<b>Solubility:</b>	water to 10 mM with gentle warming ethanol to 25 mM
<b>Storage:</b>	Desiccate at +4°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>TLC:</b>	$R_f = 0.5$ (Chloroform:Methanol:Ammonia soln. [80:18:2])
<b>HPLC:</b>	Shows 98.6% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Microanalysis:</b>	

	Carbon	Hydrogen	Nitrogen
Theoretical	64.52	5.83	17.36
Found	64.53	5.68	17.56

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

A potent and selective competitive antagonist for the angiotensin II type 1 (AT<sub>1</sub>) receptor. Displaces [<sup>125</sup>I]-angiotensin II binding with an IC<sub>50</sub> value of 3.8 nM in guinea pig adrenal gland membranes. Orally active, and is more potent and longer-acting than the prototype AT<sub>1</sub> antagonist, losartan.

**Physical and Chemical Properties:**

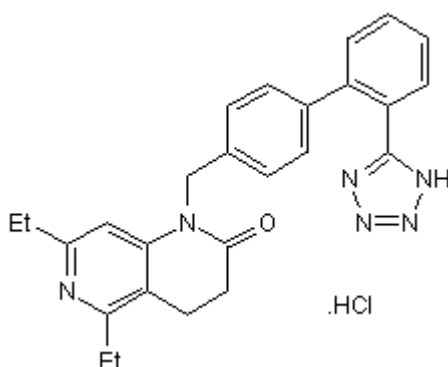
Batch Molecular Formula: C<sub>26</sub>H<sub>26</sub>N<sub>6</sub>O.HCl.½H<sub>2</sub>O

Batch Molecular Weight: 484

Physical Appearance: off-white solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at +4°C

**Solubility & Usage Info:**

water to 10 mM with gentle warming  
ethanol to 25 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:**

**Oldham et al** (1993) Zeneca ZD7155: a novel, potent and orally-effective angiotensin II receptor antagonist. *Br.J.Pharmacol.* **109** P136.

**Junggren et al** (1996) Comparative cardiovascular effects of the angiotensin II type 1 receptor antagonists ZD 7155 and losartan in the rat. *J.Pharm.Pharmacol.* **48** 829. PMID: 8887734.

**Veelken et al** (1998) Endogenous angiotensin II and the reflex response to stimulation of cardiopulmonary serotonin 5HT<sub>3</sub> receptors. *Br.J.Pharmacol.* **125** 1761. PMID: 9886768.

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USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373  
[www.RnDSystems.com](http://www.RnDSystems.com)

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