

Product Name: ZD 7155 hydrochloride

Catalog No.: 1211

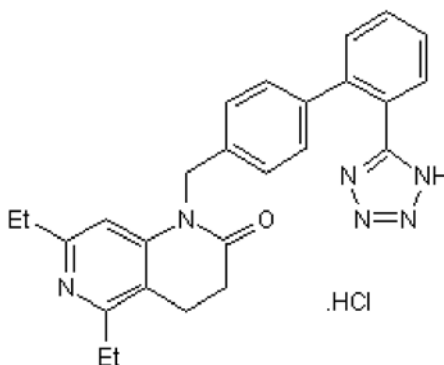
Batch No.: 5

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

Batch Molecular Formula: C₂₆H₂₆N₆O.HCl.½H₂O
Batch Molecular Weight: 484
Physical Appearance: Off-white solid
Solubility: water to 10 mM with gentle warming
 ethanol to 25 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Chloroform:Methanol:Ammonia soln. [80:18:2])
HPLC: Shows 98.0% purity
¹H NMR: Consistent with structure
 Mass Spectrum: Consistent with structure
Microanalysis:

	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:

ZD 7155 hydrochloride is a potent and selective competitive antagonist for the angiotensin II type 1 (AT₁) receptor. Displaces [¹²⁵I]-angiotensin II binding with an IC₅₀ value of 3.8 nM in guinea pig adrenal gland membranes. Orally active, and is more potent and longer-acting than the prototype AT₁ antagonist, losartan.

Physical and Chemical Properties:

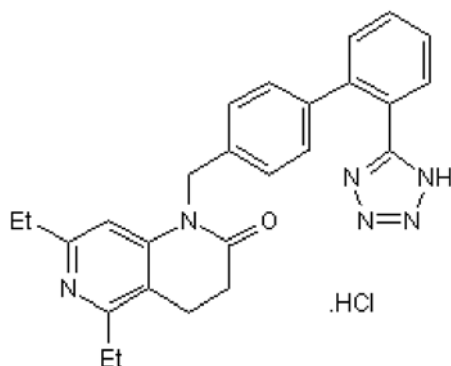
Batch Molecular Formula: C₂₆H₂₆N₆O.HCl.½H₂O

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.

Licensing Information:

Sold with the permission of AstraZeneca UK Ltd.

References:

Veelken *et al* (1998) Endogenous angiotensin II and the reflex response to stimulation of cardiopulmonary serotonin 5HT₃ receptors. *Br.J.Pharmacol.* **125** 1761. PMID: 9886768.

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

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

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