

Product Name: Conivaptan hydrochloride

Catalog No.: 6830

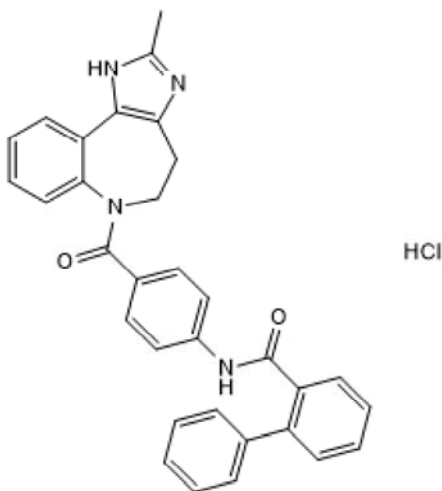
Batch No.: 1

CAS Number: 168626-94-6

IUPAC Name: *N*-[4-[(4,5-Dihydro-2-methylimidazo[4,5-*d*][1]benzazepin-6(1*H*)-yl)carbonyl]phenyl]-[1,1'-Biphenyl]-2-carboxamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₂H₂₆N₄O₂.HCl.3H₂O
Batch Molecular Weight: 589.09
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 20 mM with gentle warming
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.25	5.65	9.51
Found	65.03	5.72	9.58

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

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Description:

Very high affinity vasopressin V_{1A} and V₂ antagonist (K_i values are 0.61 and 0.66 - 3.04 nM, respectively). Inhibits vasopressin-induced pressor responses in rats without altering blood pressure, and increases urine flow while decreasing urine osmolality. Orally bioavailable.

Physical and Chemical Properties:

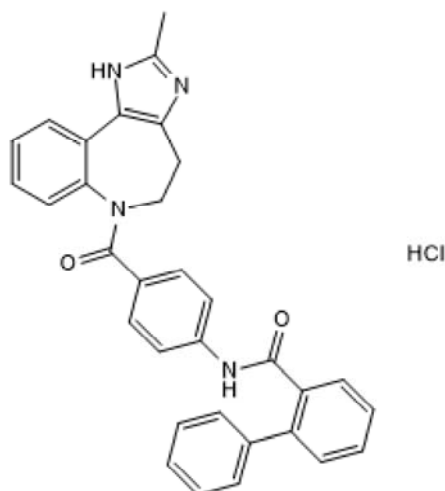
Batch Molecular Formula: C₃₂H₂₆N₄O₂.HCl.3H₂O

Batch Molecular Weight: 589.09

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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:

Tahara *et al* (1997) Pharmacological profile of YM087, a novel potent nonpeptide vasopressin V_{1A} and V₂ receptor antagonist, *in vitro* and *in vivo*. *J.Pharmacol.Exp.Ther.* **282** 301. PMID: 9223568.

Yatsu *et al* (1997) Pharmacological profile of YM087, a novel nonpeptide dual vasopressin V_{1A} and V₂ receptor antagonist, in dogs. *Eur.J.Pharmacol.* **321** 225. PMID: 9063692.

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