

Product Name: AT 1015

Catalog No.: 4468

Batch No.: 1

CAS Number: 190508-50-0

IUPAC Name: *N*-[2-[4-(5*H*-Dibenzo[*a,d*]cyclohepten-5-ylidene)-1-piperidinyl]ethyl]-1-formyl-4-piperidinecarboxamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₃₃N₃O₂·HCl·3H₂O

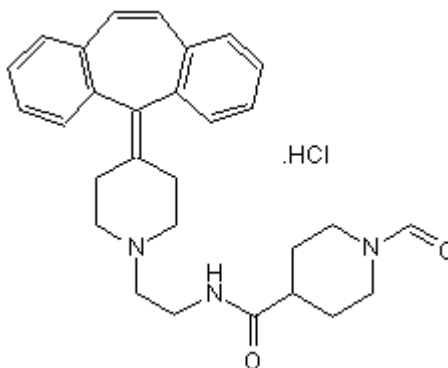
Batch Molecular Weight: 546.1

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 44 (Chloroform:Methanol [9:1])

HPLC: Shows 97.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.78	7.38	7.69
Found	63.54	7.01	7.72

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Description:

Long-acting 5-HT_{2A} receptor antagonist; inhibits vasoconstriction and blocks platelet aggregation. Prolongs clotting time in a rat model of thrombus formation; ameliorates laurate-induced peripheral vascular lesions in rodents.

Physical and Chemical Properties:

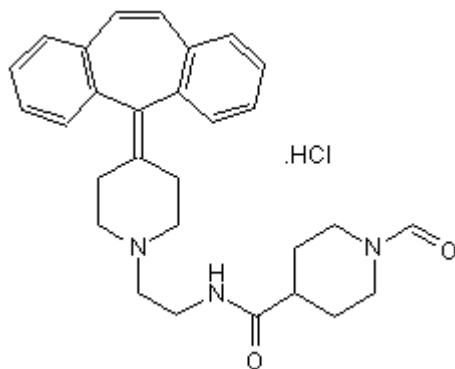
Batch Molecular Formula: C₂₉H₃₃N₃O₂.HCl.3H₂O

Batch Molecular Weight: 546.1

Physical Appearance: White solid

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water to 100 mM
DMSO to 100 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:

Kihara *et al* (2000) AT-1015, a novel serotonin (5-HT)₂ receptor antagonist, blocks vascular and platelet 5-HT_{2A} receptors and prevents the laurate-induced peripheral vascular lesions in rats. *J.Cardiovasc.Pharmacol.* **35** 523. PMID: 10774780.

Kihara *et al* (2001) Antithrombotic activity of AT-1015, a potent 5-HT_{2A} receptor antagonist, in rat arterial thrombosis model and its effect on bleeding time. *Eur.J.Pharmacol.* **433** 157. PMID: 11755147.

Rashid *et al* (2001) Assessment of affinity and dissociation ability of a newly synthesized 5-HT₂ antagonist, AT-1015: comparison with other 5-HT₂ antagonists. *Jpn.J.Pharmacol.* **87** 189. PMID: 11885967.

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