

Certificate of Analysis

Product Name: ATC 0175 hydrochloride

Catalog No.: 3346

Batch No.: 2

CAS Number: 510733-97-8

IUPAC Name: *N*-[*cis*-4-[[4-(Dimethylamino)-2-quinazoliny]amino]cyclohexyl]-3,4-difluorobenzamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₅F₂N₅O.HCl.½H₂O

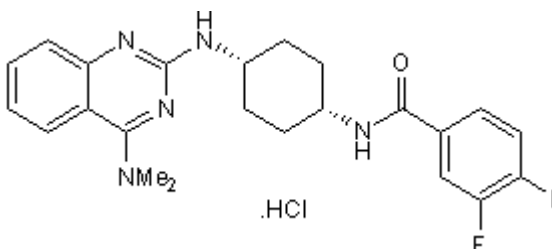
Batch Molecular Weight: 470.95

Physical Appearance: Off-white solid

Solubility: DMSO to 10 mM
ethanol to 25 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Chloroform:Methanol [95:5])

HPLC: Shows 98.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.66	5.78	14.87
Found	58.68	5.88	14.63

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

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Description:

Potent, selective and orally active melanin-concentrating hormone receptor 1 (MCH₁) antagonist (IC₅₀ values are 13.5 and > 10000 nM for MCH1 and MCH2 receptors respectively). Exhibits anxiolytic and antidepressant activity in rodents. Also displays affinity for 5-HT_{2B} and 5-HT_{1A} receptors (IC₅₀ values are 9.66 and 16.9 nM respectively).

Physical and Chemical Properties:

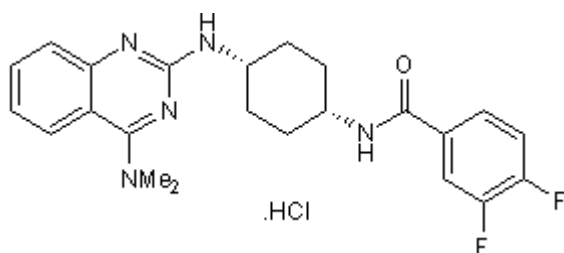
Batch Molecular Formula: C₂₃H₂₅F₂N₅O.HCl.½H₂O

Batch Molecular Weight: 470.95

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 10 mM

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:

Chaki et al (2005) Anxiolytic- and antidepressant-like profile of ATC0065 and ATC0175: nonpeptidic and orally active melanin-concentrating hormone receptor 1 antagonists. *J.Pharmacol.Exp.Ther.* **313** 831. PMID: 15677346.

Chaki et al (2005) ATC0175: an orally active melanin-concentrating hormone receptor 1 antagonist for the potential treatment of depression and anxiety. *CNS Drug Rev.* **11** 341. PMID: 16614734.

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