

Certificate of Analysis

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Product Name: CGP 20712 dihydrochloride

Catalog No.: 1024

Batch No.: 3

CAS Number: 1216905-73-5

IUPAC Name: 1-[2-((3-Carbamoyl-4-hydroxy)phenoxy)ethylamino]-3-[4-(1-methyl-4-trifluoromethyl-2-imidazolyl)phenoxy]-2-propanol dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₅F₃N₄O₅.2HCl.1/4H₂O

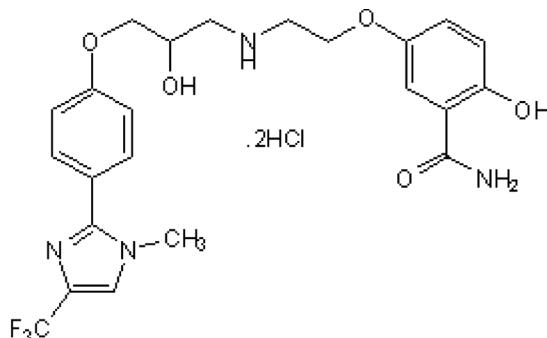
Batch Molecular Weight: 571.89

Physical Appearance: White solid

Solubility: water to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	48.3	4.85	9.8	12.4
Found	47.8	4.93	9.56	12.83

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

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Product Information

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Description:

CGP 20712 dihydrochloride is a highly selective and potent β_1 -adrenoceptor antagonist ($IC_{50} = 0.7$ nM). Displays 10,000-fold selectivity over β_2 -adrenoceptors.

Physical and Chemical Properties:

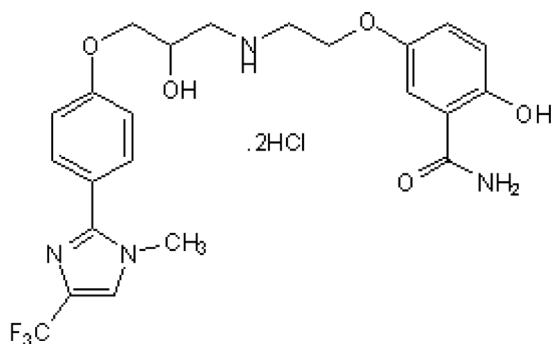
Batch Molecular Formula: $C_{23}H_{25}F_3N_4O_5 \cdot 2HCl \cdot \frac{1}{2}H_2O$

Batch Molecular Weight: 571.89

Physical Appearance: White solid

Minimum Purity: $\geq 96\%$

Batch Molecular Structure:



Storage: Store at $+4^\circ C$

Solubility & Usage Info:

water to 50 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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 $-20^\circ C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

- Hieble et al** (1995) α -and β -adrenoceptors. From the gene to the clinic. 1. Molecular biology and adrenoceptor subclassification. *J.Med.Chem.* **38** 3415. PMID: 7658428.
- Kitagawa et al** (1995) Determination of β -adrenoceptor subtype on rat isolated ventricular myocytes by use of highly selective β -antagonists. *Br.J.Pharmacol.* **116** 1635. PMID: 8564230.
- Dooley et al** (1986) CGP 20712A: a useful tool for quantitating β_1 - and β_2 -adrenoceptors. *Eur.J.Pharmacol.* **130** 137. PMID: 2877892.

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