

**Product Name:** CGP 71683 hydrochloride

**Catalog No.:** 2199

**Batch No.:** 3

CAS Number: 192322-50-2

IUPAC Name: *N*-[[*trans*-4-[[4-Amino-2-quinazoliny]amino]methyl]cyclohexyl]methyl]-1-naphthalenesulfonamide hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>26</sub>H<sub>29</sub>N<sub>5</sub>O<sub>2</sub>S.HCl.½H<sub>2</sub>O

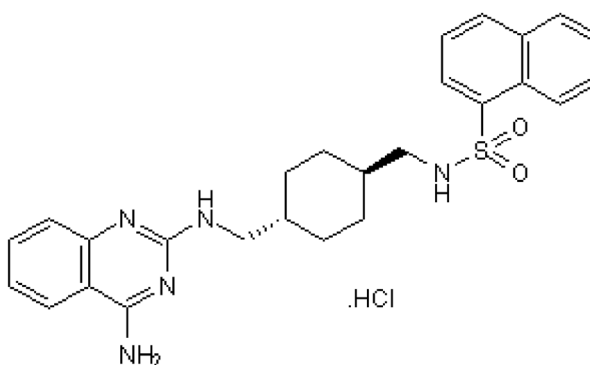
**Batch Molecular Weight:** 521.08

**Physical Appearance:** Off White solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	59.93	6	13.44
Found	59.95	5.97	13.21

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**Description:**

CGP 71683 hydrochloride is an extremely selective, non-peptide NPY Y<sub>5</sub> receptor antagonist. Displays > 1000-fold selectivity over Y<sub>1</sub>, Y<sub>2</sub> and Y<sub>4</sub> receptors; IC<sub>50</sub> values are 1.4, 2765, 7187 and 5637 nM at cloned rat Y<sub>5</sub>, Y<sub>1</sub>, Y<sub>2</sub> and Y<sub>4</sub> receptors respectively. Potently inhibits NPY-induced food intake following i.p. administration in diabetic, free-feeding and fasted rats.

**Physical and Chemical Properties:**

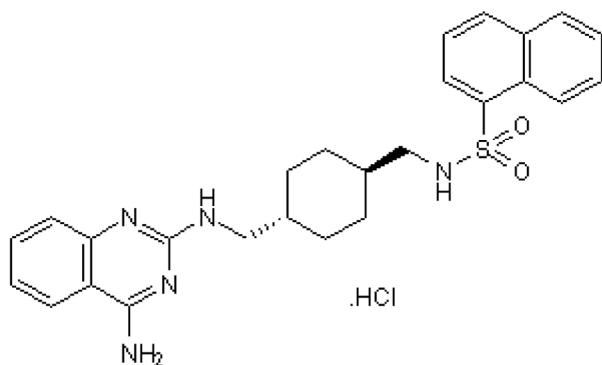
Batch Molecular Formula: C<sub>26</sub>H<sub>29</sub>N<sub>5</sub>O<sub>2</sub>S.HCl.½H<sub>2</sub>O

Batch Molecular Weight: 521.08

Physical Appearance: Off White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

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:**

**Lecklin *et al*** (2002) Receptor subtypes Y<sub>1</sub> and Y<sub>5</sub> mediate neuropeptide Y induced feeding in the guinea-pig. *Br.J.Pharmacol.* **135** 2029. PMID: 11959807.

**Dumont *et al*** (2000) Potent and selective tools to investigate neuropeptide Y receptors in the central and peripheral nervous systems: BIB03304 (Y<sub>1</sub>) and CGP71683A (Y<sub>5</sub>). *Can.J.Physiol.Pharmacol.* **78** 116. PMID: 10737674.

**Criscione *et al*** (1998) Food intake in free-feeding and energy-deprived lean rats is mediated by the neuropeptide Y<sub>5</sub> receptor. *J.Clin.Invest.* **102** 2136. PMID: 9854049.

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