bio-techne
TOCRIS

Print Date: Jul 27th 2023

Certificate of Analysis

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Product Name: **CGP 71683 hydrochloride** **Catalog No.: 2199** **Batch No.: 4**

CAS Number: 192322-50-2

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{26}H_{29}N_5O_2S.HCl.1½H_2O$

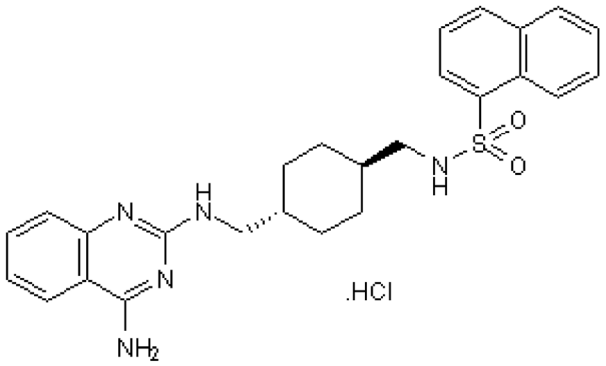
Batch Molecular Weight: 539.09

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.93	6.17	12.99
Found	57.15	5.77	12.7

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Description:

CGP 71683 hydrochloride is an extremely selective, non-peptide NPY Y_5 receptor antagonist. Displays > 1000-fold selectivity over Y_1, Y_2 and Y_4 receptors; IC_{50} values are 1.4, 2765, 7187 and 5637 nM at cloned rat Y_5, Y_1, Y_2 and Y_4 receptors respectively. Potently inhibits NPY-induced food intake following i.p. administration in diabetic, free-feeding and fasted rats.

Physical and Chemical Properties:

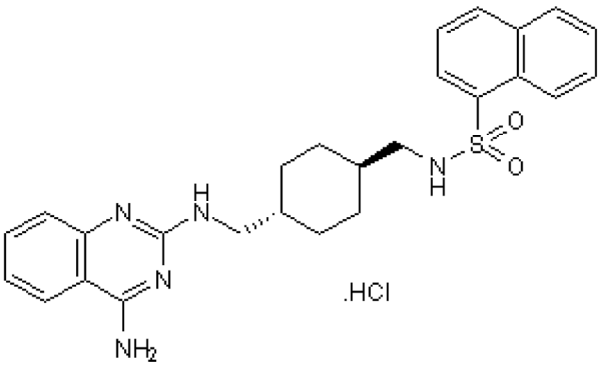
Batch Molecular Formula: $C_{26}H_{29}N_5O_2S.HCl.1½H_2O$

Batch Molecular Weight: 539.09

Physical Appearance: White solid

Minimum Purity: ≥98%

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. *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°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_1 and Y_5 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 (Y1) and CGP71683A (Y5). 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_5 receptor. J.Clin.Invest. ***102*** 2136. PMID: 9854049.