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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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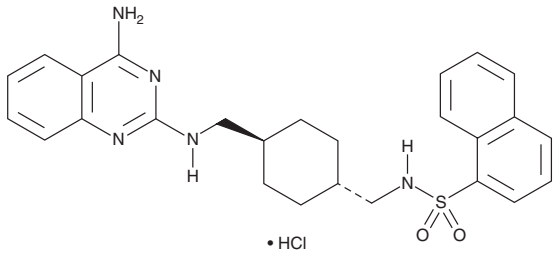
PRODUCT INFORMATION

CGP 71683 (hydrochloride)

Item No. 28778

CAS Registry No.:	192322-50-2
Formal Name:	N-[[*trans*-4-[[(4-amino-2-quinazolinyl)amino]methyl]cyclohexyl]methyl]-1-naphthalenesulfonamide, monohydrochloride
Synonym:	CGP 71683A
MF:	$C_{26}H_{29}N_5O_2S \bullet HCl$
FW:	512.1
Purity:	≥98%
UV/Vis.:	λ_{max}: 272 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

CGP 71683 (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the CGP 71683 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. CGP 71683 (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of CGP 71683 (hydrochloride) in ethanol is approximately 20 mg/ml and approximately 30 mg/ml in DMSO and DMF.

CGP 71683 (hydrochloride) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CGP 71683 (hydrochloride) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. CGP 71683 (hydrochloride) has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

CGP 71683 is an antagonist of neuropeptide Y (NPY) receptor Y_5 (IC_{50} = 1.4 nM in a radioligand binding assay).[1] It is selective for Y_5 over Y_1, Y_2, and Y_4 receptors (IC_{50}s = 2,765, 7,187, and 5,637 nM, respectively). It inhibits NPY-induced increases in BT-549 cell growth and MDA-MB-231 cell migration when used at a concentration of 0.25 µM.[2] CGP 71683 (10 mg/kg, i.p.) inhibits increases in food intake induced by intracerebroventricular administration of NPY in rats.[1]

References

1. Criscione, L., Rogollier, P., Batszl-Hartmann, C., *et al.* Food intake in free-feeding and energy-deprived lean rats is mediated by the neuropeptide Y5 receptor. *J. Clin. Invest.* **102(12),** 2136-2145 (1998).
2. Sheriff, S., Ali, M., Yahya, A., *et al.* Neuropeptide Y Y5 receptor promotes cell growth through extracellular signal-regulated kinase signaling and cyclic AMP inhibition in a human breast cancer cell line. *Mol. Cancer Res.* **8(4),** 604-614 (2010).

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