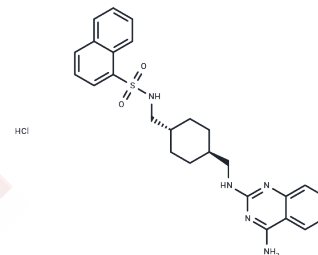


CGP71683 hydrochloride

Chemical Properties

CAS No. :	192322-50-2
Formula:	C ₂₆ H ₃₀ ClN ₅ O ₂ S
Molecular Weight:	512.07
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	CGP71683 hydrochloride (CGP71683A) is a competitive neuropeptide Y5 receptor antagonist (K _i : 1.3 nM) and shows no obvious activity at Y1 receptor (K _i >4000 nM) and Y2 receptor (K _i : 200 nM) in cell membranes.
Targets(IC ₅₀)	Neuropeptide Y Receptor
In vivo	CGP71683 (1-10 mg/kg, i.p.) dose-dependently decreased nocturnal and fasting-induced food intake. CGP71683A did not have an anxiogenic-like effect in the rat social interaction test. In the open-field test, carried out immediately after the elevated plus-maze test, CGP71683A inhibited horizontal and vertical activity [2].

Solubility Information

Solubility	DMSO: 120 mg/mL (234.34 mM),Sonication is recommended. H ₂ O: 10 mg/mL (19.53 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (7.81 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9529 mL	9.7643 mL	19.5286 mL
5 mM	0.3906 mL	1.9529 mL	3.9057 mL
10 mM	0.1953 mL	0.9764 mL	1.9529 mL
50 mM	0.0391 mL	0.1953 mL	0.3906 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Lecklin A, et al. Receptor subtypes Y1 and Y5 mediate neuropeptide Y induced feeding in the guinea-pig. *Br J Pharmacol.* 2002 Apr;135(8):2029-37.

Kask A, et al. Neuropeptide Y Y(5) receptor antagonist CGP71683A: the effects on food intake and anxiety-related behavior in the rat. *Eur J Pharmacol.* 2001 Mar 2;414(2-3):215-24.

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