

CGP 20712 A

Chemical Properties

CAS No. : 105737-62-0

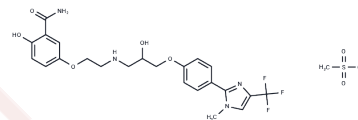
Formula: C₂₄H₂₉F₃N₄O₈S

Molecular Weight: 590.57

Keep away from moisture

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	CGP 20712 A (CGP 20712 mesylate) is a selective and potent β 1-adrenergic receptor antagonist (IC ₅₀ : 0.7 nM) with antihypertensive activity, capable of reversing RKT-induced gastric relaxation.
Targets(IC ₅₀)	Adrenergic Receptor
In vitro	In myocyte, saturation experiments conducted in the presence of 300nM CGP 20712A failed to detect specific binding of [¹²⁵ I]-ICYP and [³ H]-CGP 12177[2].
In vivo	Pre-treatment with 5mg/kg CGP 20712A (selective β 1-adrenoceptor antagonist) in 8-day-old rats did not alter the plasma ACTH response to insulin injection[3].

Solubility Information

Solubility	DMSO: 80 mg/mL (135.46 mM), Sonification is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6933 mL	8.4664 mL	16.9328 mL
5 mM	0.3387 mL	1.6933 mL	3.3866 mL
10 mM	0.1693 mL	0.8466 mL	1.6933 mL
50 mM	0.0339 mL	0.1693 mL	0.3387 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

Dooley DJ, et al. CGP 20712 A: a useful tool for quantitating beta 1- and beta 2-adrenoceptors. Eur J Pharmacol. 1986 Oct 14;130(1-2):137-9.

Kitagawa Y, et al. Determination of beta-adrenoceptor subtype on rat isolated ventricular myocytes by use of highly selective beta-antagonists. Br J Pharmacol. 1995 Sep;116(1):1635-43.

Grino M, et al. Ontogeny of insulin-induced hypoglycemia stimulation of adrenocorticotropin secretion in the rat: role of catecholamines. Endocrinology. 1992 Dec;131(6):2763-8.

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