CGP 20712 A

Cat. No.: HY-101355B

CAS No.: 105737-62-0

Molecular Formula: $C_{24}H_{29}F_3N_4O_8S$

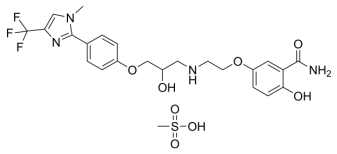
Molecular Weight: 590.57

Target: Adrenergic Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: -20°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (169.33 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

CGP 20712 A (CGP 20712 mesylate) is a highly selective β1-adrenoceptor antagonist with an IC_{50} of 0.7 nM. CGP 20712 A exhibits ~10,000-fold selectivity over β2-adrenoceptors[1].

IC_{50} & Target

β adrenergic receptor

In Vitro

In myocytes, the activation of adenylate cyclase causes by β2-adrenoceptors is not detected in the presence of 10 nM, 100 nM or 1000 nM CGP 20712 A (CGP 20712 mesylate), which selectively antagonized beta1-adrenoceptors[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Pretreatment of 8-day-old rats with 5 mg/kg CGP 20712 A do not change the plasma ACTH response to insulin injection[3].

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REFERENCES

[1]. 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.

[2]. 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.

[3]. 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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