

CGP48369

Chemical Properties

CAS No. : 135689-23-5

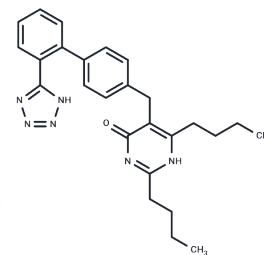
Formula: C₂₆H₃₀N₆O

Molecular Weight: 442.56

Store at low temperature

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	CGP48369 is a potent angiotensin II receptor antagonist with antihypertensive effects that enhances endothelium-dependent relaxation of coronary arteries in spontaneously hypertensive rats.
Targets(IC50)	RAAS
In vitro	Binding to the AT1 receptor (IC ₅₀ 1.8 nM in vascular smooth muscle cells, VSMC), CGP 48369 inhibits All-induced contraction in rabbit aorta (IC ₅₀ 8.7 nM)[2].
In vivo	In two-kidney/one-clip renal hypertensive rats, CGP48369 (10 mg/kg/day p.o.) reduces blood pressure for at least 24 h. In arteries with endothelium, contractions induced by All at 3×10 ⁻⁸ M do not differ between untreated spontaneously hypertensive rats (SHR) and Wistar-Kyoto (WKY) rats. However, significantly smaller contractions are observed in SHR treated with CGP48369 compared to the other treated SHR groups. Antihypertensive treatment with benazepril or nifedipine, and to a lesser extent with CGP48369, increases sensitivity (pD ₂ -value) to intraluminal ACh. In arteries without endothelium, sensitivity to NE is identical in all groups, while the maximal response in CGP48369-treated SHR and nifedipine-treated SHR is slightly greater compared to that in WKY[1]. In SHR, antihypertensive therapy with benazepril HCl, CGP48369, valsartan, or nifedipine (each 10 mg/kg/day for 8 weeks) significantly increases endothelium-dependent relaxations evoked by acetylcholine[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2596 mL	11.2979 mL	22.5958 mL
5 mM	0.4519 mL	2.2596 mL	4.5192 mL
10 mM	0.226 mL	1.1298 mL	2.2596 mL
50 mM	0.0452 mL	0.226 mL	0.4519 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

Tschudi MR, et al. Antihypertensive therapy augments endothelium-dependent relaxations in coronary arteries of spontaneously hypertensive rats. *Circulation*. 1994 May;89(5):2212-8.

Dohi Y, et al. Angiotensin blockade or calcium antagonists improve endothelial dysfunction in hypertension: studies in perfused mesenteric resistance arteries. *J Cardiovasc Pharmacol*. 1994 Sep;24(3):372-9.

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