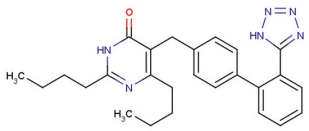
Data Sheet (Cat.No.T14942)

TargetMol
A DRUG SCREENING EXPERT

CGP48369

Chemical Properties



CAS No.:	135689-23-5
Formula:	C26H30N6O
Molecular Weight:	442.56
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	CGP48369 is a nonpeptidic antagonist of the angiotensin II receptor. It is used for anti-hypertensive research.
Targets(IC_{50})	Others: None
In vitro	CGP 48369 inhibits AII-induced contraction in rabbit aorta (IC50: 8.7 nM). CGP 48369 binds to the ATl receptor (IC50: 1.8 nM in vascular smooth muscle cells) [1].
In vivo	CGP48369 (10 mg/kg/day p.o.) decreases BP in two-kidney/one-clip renal hypertensive rats for at least 24 h. All evoked significantly smaller contractions in SHR treated with CGP 48369 than in the other treated SHR. Whereas maximal response in CGP 48369-treated SHR and in nifedipine treated SHR is slightly greater as compared with that in WKY [1]. In SHR, antihypertensive therapy with either benazepril HCl, CGP 48369, valsartan, or nifedipine (each 10 mg/kg/d for 8 weeks) significantly increase endothelium-dependent relaxations evoked by acetylcholine [2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.26 mL	11.298 mL	22.596 mL
5 mM	0.452 mL	2.26 mL	4.519 mL
10 mM	0.226 mL	1.13 mL	2.26 mL
50 mM	0.045 mL	0.226 mL	0.452 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.
2. Tschudi MR, et al. Antihypertensive therapy augments endothelium-dependent relaxations in coronary arteries of spontaneously hypertensive rats. Circulation. 1994 May;89(5):2212-8.

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Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481