

CGP-42112

## Chemical Properties

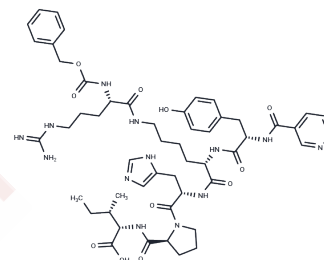
CAS No. : 127060-75-7

Formula: C52H69N13O11

Molecular Weight: 1052.18

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

Description	CGP-42112 is an agonist of the Angiotensin-II subtype 2 receptor (AT2 R).
Targets(IC50)	Others
In vitro	CGP42112 ( $\geq 1$ nM) significantly inhibited cGMP production from the basal value and TH-enzyme activity from the basal value. These inhibitory effects of CGP42112 on TH-enzyme activity and-cGMP production were abolished by PD123319 [1]. [125I]CGP 42112 bound selectively to the AT2 angiotensin II receptor subtype. [125I]CGP 42112 binding was selective for AT2 receptors, as determined by lack of competition with the AT1 ligand losartan, and competition by the AT2 ligands PD 123177 and unlabeled CGP 42112 and the non-selective peptides Ang II and angiotensin III (Ang III) [4]. [125I]CGP 42112 bound with higher affinity in the brain than in the adrenal. beta-Mercaptoethanol enhanced [125I]CGP 42112 binding in the brain, but did not alter its binding in the adrenal [2].
In vivo	Intravenous infusions of CGP 42112 (0.1 and 1 mg/kg/min) and PD 123319 (0.36 and 1 mg/kg/min) shifted the upper limit of CBF autoregulation toward higher blood pressures without affecting baseline CBF [3].

## Solubility Information

Solubility	DMSO: 350 mg/mL (332.64 mM),Sonication 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	0.9504 mL	4.752 mL	9.5041 mL
5 mM	0.1901 mL	0.9504 mL	1.9008 mL
10 mM	0.095 mL	0.4752 mL	0.9504 mL
50 mM	0.019 mL	0.095 mL	0.1901 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.

## Reference

Takekoshi K, et al. Angiotensin-II subtype 2 receptor agonist (CGP-42112) inhibits catecholamine biosynthesis in cultured porcine adrenal medullary chromaffin cells. *Biochem Biophys Res Commun*. 2000 Jun 7;272(2):544-50.

Speth RC. [125I]CGP 42112 binding reveals differences between rat brain and adrenal AT2 receptor binding sites. *Regul Pept*. 1993 Mar 19;44(2):189-97.

Naveri L, et al. Angiotensin II AT2 receptor stimulation extends the upper limit of cerebral blood flow autoregulation: agonist effects of CGP 42112 and PD 123319. *J Cereb Blood Flow Metab*. 1994 Jan;14(1):38-44.

Heemskerk FM, et al. Quantitative autoradiography of angiotensin II AT2 receptors with [125I]CGP 42112. *Brain Res*. 1995 Apr 17;677(1):29-38.

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