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产品名称: **AngiotensinIIReceptorLigand**
产品别名: **CGP-42112; CGP42112A**

生物活性:				
Description	CGP-42112(CGP-42112A) is a potent Angiotensin-II subtype 2 receptor(AT2 R) agonist. IC50 value: Target: AT2 R agonist in vitro: CGP42112 (≥ 1 nM) significantly inhibited cGMP production from the basal value. CGP42112 (≥ 1 nM) significantly inhibited TH-enzyme activity from the basal value. These inhibitory effects of CGP42112 on TH-enzyme activity and cGMP production were abolished by PD123319 (AT(2)-R antagonist) while CV-11974 (AT(1)-R antagonist) was ineffective [1]. [125I]CGP 42112 bound selectively to the AT2 angiotensin II receptor subtype. [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]. [125I]CGP 42112 bound with high affinity ($K_d = 0.07-0.3$ nM, depending on the area studied). [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]. in vivo: Intravenous infusions of CGP 42112 (0.1 and 1 mg kg⁻¹ min⁻¹) and PD 123319 (0.36 and 1 mg kg⁻¹ min⁻¹) shifted the upper limit of CBF autoregulation toward higher blood pressures without affecting baseline CBF [3].			
Solvent&Solubility	In Vitro: DMSO : ≥ 350 mg/mL (332.64 mM) * "$\geq$" means soluble, but saturation unknown.			
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg
		1 mM	0.9504 mL	4.7520 mL
		5 mM	0.1901 mL	0.9504 mL
		10 mM	0.0950 mL	0.4752 mL
	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。 -80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。			
References	[1]. 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. [2]. 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. [3]. 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. [4]. Heemskerk FM, et al. Quantitative autoradiography of angiotensin II AT2 receptors with [125I]CGP 42112. Brain Res. 1995 Apr 17;677(1):29-38.			