

Angiotensin II

货号: A0313

储存条件: 粉末-20°C 可保存 3 年; 液体-80°C 可保存 12 月。

产品描述

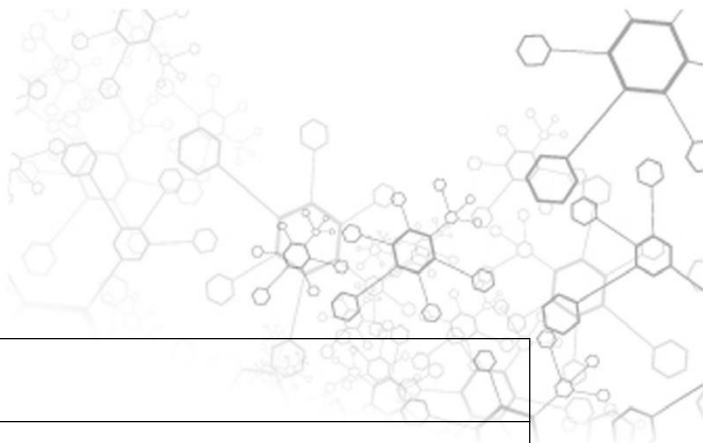
Angiotensin Receptor (ATR) is a kind of G protein-coupled receptor (GPCR) and plays an important role in multiple cellular functions, such as blood pressure, thirst, sodium balance, growth-promoting, proinflammatory, profibrotic actions and so on. Angiotensin II, as a the octapeptide hormone, could at least interact with two high-affinity receptors, designated as AT1R and AT2R. Consistent with interaction with AT1R by angiotensin II, with the addition of $1 \times 10^{-7} \text{M}$ angiotensin II, the level of vascular endothelial growth factor (VEGF) mRNA in rat heart-derived endothelial cells would increase 5-fold at 2h and then decline over 4 h, which was mainly attributed to the transcriptional activation by enhancing AP-1 and NF- κ B binding. Meanwhile, correlating well with its mRNA level, the intensity of some certain VEGFs was increased from 8 to 12h with treatment of angiotensin II in the conditioned medium, which had been shown to promote the growth of endothelial cell and change its permeability. Continuous infusion of $1 \mu\text{g}/\text{kg}/\text{min}$ angiotensin II for 14 days could induce a marked increase of VEGF in distal tubules and a moderate increase in proximal tubules of male Sprague-Dawley (SD) rats, as well as elevate the level of flk-1, a major VEGF receptor, for 1.8-fold compared to the PBS- or NE-infused group through AT1R. Besides of the interaction with AT1R, continuous infusion of angiotensin II could also result in interstitial fibrosis in the rats through AT2R, which could be slightly diminished by hydralazine, a AT2R receptor antagonist.

作用机制

Angiotensin-(1-7) Is an endogenous ligand for the G protein-coupled receptor mas .

储存液制备	质量	1 mg	5 mg	10 mg
	1 mM	0.9559 mL	4.7793 mL	9.5586 mL
	5 mM	0.1912 mL	0.9559 mL	1.9117 mL
	10 mM	0.0956 mL	0.4779 mL	0.9559 mL





产品性质

CAS号	4474-91-3	
分子式	C ₅₀ H ₇₁ N ₁₃ O ₁₂	
分子量	1046.18	
溶解度	DMSO	150.0 mg/mL (143.4 mM)
	Water	50.0 mg/mL (47.8 mM) warming

