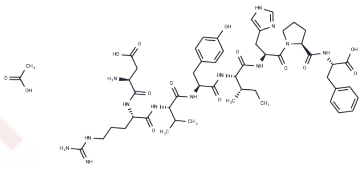
Data Sheet (Cat.No.T8560)

TargetMol

Angiotensin II human acetate

Chemical Properties



CAS No. : 68521-88-0

Formula: C52H75N13O14

Molecular Weight: 1106.2

Storage: Keep away from moisture,Store at low temperature
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	Angiotensin II human acetate is a key vasoconstrictor peptide in the renin-angiotensin system. It regulates blood pressure by binding to AT1R and AT2R receptors, stimulates the sympathetic nervous system, promotes aldosterone synthesis and renal function, induces vascular smooth muscle cell proliferation and collagen synthesis, leading to vascular and myocardial hypertrophy and fibrosis, while also promoting apoptosis and endothelial capillary formation. It is commonly used to induce hypertension and cardiac hypertrophy models.
Targets(IC50)	Apoptosis,RAAS

Solubility Information

Solubility	DMSO: Insoluble, H2O: 20 mg/mL (18.08 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.904 mL	4.520 mL	9.040 mL
5 mM	0.1808 mL	0.904 mL	1.808 mL
10 mM	0.0904 mL	0.452 mL	0.904 mL
50 mM	0.0181 mL	0.0904 mL	0.1808 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

Fyhrquist F, et al. Role of angiotensin II in blood pressure regulation and in the pathophysiology of cardiovascular disorders. J Hum Hypertens. 1995 Nov;9 Suppl 5:S19-24.
Wang K, Zhou M, Zhang Y, et al. IRX2 activated by jumonji domain-containing protein 2A is crucial for cardiac hypertrophy and dysfunction in response to the hypertrophic stimuli. International Journal of Cardiology. 2022
Crowley SD, et al. Angiotensin II causes hypertension and cardiac hypertrophy through its receptors in the kidney. Proc Natl Acad Sci U S A. 2006 Nov 21;103(47):17985-90.

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