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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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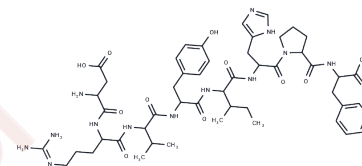
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Angiotensin II human

Chemical Properties

CAS No. :	4474-91-3
Formula:	C50H71N13O12
Molecular Weight:	1046.18
Appearance:	no data available
Storage:	keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Angiotensin II human (Ang II) is a biologically active peptide, a vasoconstrictor. Angiotensin II interacts with AT1R and AT2R to regulate blood pressure, stimulate sympathetic nerves, and increase aldosterone biosynthesis and renal activity in humans.
Targets(IC50)	Apoptosis, RAAS
In vitro	<p>METHODS: Human hepatocellular carcinoma cells (HCC) HepG-2, SMMC-7721, and MHCC97-H were treated with Angiotensin II (1-1000 nM) for 24-72 h. The cell viability was determined using MTT.</p> <p>RESULTS: Angiotensin II induced HCC cell lines to show higher growth in a time- and concentration-dependent manner. [1]</p> <p>METHODS: Neonatal rat cardiomyocytes were treated with Angiotensin II (1 µmol/L) for 5 min-48 h. HMGB1 and IL-6 expression levels were measured by ELISA and RT-qPCR.</p> <p>RESULTS: Angiotensin II enhanced the expression levels of HMGB1 and IL-6 in cardiomyocytes. [2]</p>
In vivo	<p>METHODS: To determine insulin action in a human hypertensive mouse model, Angiotensin II (1.1 mg/kg in 0.9% saline) was administered to C57Bl/6j mice using an osmotic minipump for two to four weeks.</p> <p>RESULTS: Blood pressure increased after Angiotensin II treatment. The increase in serum insulin was greater in Angiotensin II-treated mice after glucose administration. Long-term Angiotensin II treatment for four weeks enhanced glucose-stimulated insulin secretion in mice. [3]</p> <p>METHODS: To analyze genotoxic effects in vivo, Angiotensin II (60 ng/kg/min-1 µg/kg/min) was administered using an osmotic minipump to C57Bl/6j mice for four weeks.</p> <p>RESULTS: Angiotensin II increased SBP up to 38 mmHg over control and adversely affected renal function in mice. In the heart, a significant increase in reactive oxygen species formation and double-strand breaks were detected at the highest administered dose. In the kidney, a dose-dependent increase in superoxide formation, double-strand breaks and DNA base modification mutations were observed. [4]</p>
Animal Research	(129xC57BL/6) F1 mice, which lack AT1A receptors Angiotensin II used, are fed 10 gm/day gelled 0.25% NaCl diet that contains all nutrients and water. After 28 days of Angiotensin II infusion, hearts are harvested, weighed fixed in formalin, sectioned, and stained with Masson trichrome.

Solubility Information

Solubility	H2O: 1 mg/mL DMSO: 10.46 mg/mL (10 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	0.9559 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
50 mM	0.0191 mL	0.0956 mL	0.1912 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

Zhang R Y, Wu C M, Hu X M, et al. LncRNA AC105942. 1 Downregulates hnRNPA2/B1 to Attenuate Vascular Smooth Muscle Cells Proliferation. DNA and Cell Biology. 2021

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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