

Angiotensin Fragment 1-7 (acetate)

Chemical Properties

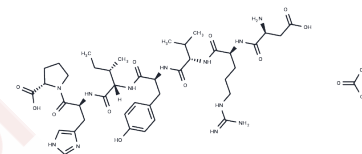
CAS No. :

Formula: C₄₁H₆₂N₁₂O₁₁·XC₂H₄O₂

Molecular Weight: 899

Storage: 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 Fragment 1-7 is a type 1 angiotensin II receptor agonist. In the renin-angiotensin system, angiotensin I is cleaved by the angiotensin-converting enzyme to form angiotensin II, which has effects on fluid and electrolyte, as well as homeostasis blood pressure.
Targets(IC50)	Others
In vitro	In a previous study, peripheral atherectomy plaques collected from diabetic (DM) and 12 non-DM patients were immunostained. Results showed that the tissue contents of ACE2, angiotensin fragment 1-7, and AT1R were increased in DM when compared to non-DM. IL-6 and TNF- α were also increased in DM when compared to non-DM, as well as macrophage infiltration score and neovessel counting [1].
In vivo	The effects of chronic angiotensin fragment 1-7 treatment was studied in an experimental model of the metabolic syndrome, rats given high-fructose/low-magnesium diet (HFrD). After 6 months, angiotensin fragment 1-7-treated animals had lower body weight, total fat mass, and serum triglycerides, improved glucose tolerance, and better insulin sensitivity. Similar metabolic effects were also evident, albeit in the absence of weight loss, in rats first exposed to HFrD for 5 months and then subjected to short-term treatment with angiotensin fragment 1-7 [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1123 mL	5.5617 mL	11.1235 mL
5 mM	0.2225 mL	1.1123 mL	2.2247 mL
10 mM	0.1112 mL	0.5562 mL	1.1123 mL
50 mM	0.0222 mL	0.1112 mL	0.2225 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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