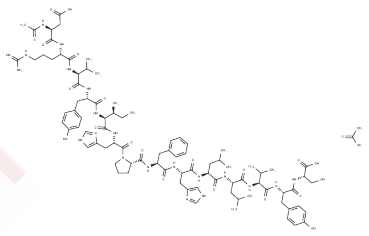
Data Sheet (Cat.No.T21582L)

TargetMol

Acetyl Angiotensinogen (1-14), porcine Acetate

Chemical Properties



CAS No. :

Formula: C89H129N21O23

Molecular Weight: 1861.1

Storage: Keep away from moisture
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	Acetyl Angiotensinogen (1-14), porcine Acetate is a peptide with the sequence AC-ASP-ARG-VAL-TYR-ILE-HIS-PRO-PHE-HIS-LEU-LEU-VAL-TYR-SER-OH. The protein encoded by the Angiotensinogen gene is known as pre-angiotensinogen or angiotensinogen precursor.
Targets(IC50)	Others
In vitro	The renin-angiotensin system?was extracted from blood with 70% acetone and had a short pressor effect.?The renin acted enzymatically on a plasma protein to produce the new substance.?
In vivo	The protein encoded by the Angiotensinogen gene is known as pre-angiotensinogen or angiotensinogen precursor.?Pre-angiotensinogen is expressed in the liver and is cleaved by the enzyme renin in response to lowered blood pressure.?The resulting product, angiotensin I, is then cleaved by angiotensin converting enzyme (ACE) to generate the physiologically active enzyme angiotensin II.?Angiotensin II is involved in maintaining blood pressure and in the pathogenesis of essential hypertension and preeclampsia[2].

Solubility Information

Solubility	DMSO: 162 mg/mL (87.05 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5373 mL	2.6866 mL	5.3732 mL
5 mM	0.1075 mL	0.5373 mL	1.0746 mL
10 mM	0.0537 mL	0.2687 mL	0.5373 mL
50 mM	0.0107 mL	0.0537 mL	0.1075 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

Pierre, Corvol. [History of the discovery of the renin-angiotensin system].[J]. La Revue Du Praticien, 2018.

Skurk T , Lee Y M , Hauner H . Angiotensin II and Its Metabolites Stimulate PAI-1 Protein Release From Human Adipocytes in Primary Culture[J]. Hypertension, 2001, 37(5):1336-40.