

## Angiotensin 1/2 (5-7)

## Chemical Properties

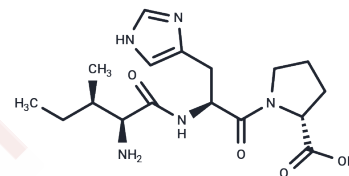
CAS No. :

Formula: C17H27N5O4

Molecular Weight: 365.43

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 1/2 (5-7) is a peptide with the sequence H2N-Ile-His-Pro-OH. Angiotensin is an oligopeptide and is a hormone and a powerful diuretic. It is derived from the precursor molecule angiotensinogen, a serum globulin produced in the liver. It plays an important role in the renin-angiotensin system
Targets(IC50)	Others
In vitro	Angiotensin I is formed by the action of renin on angiotensinogen. Renin is produced in the kidneys in response to renal sympathetic activity, decreased intrarenal blood pressure at the juxtaglomerular cells(2), or decreased delivery of Na <sup>+</sup> and Cl <sup>-</sup> to the macula densa. If less Na <sup>+</sup> is sensed by the macula densa, renin release by juxtaglomerular cells is increased. Renin cleaves the peptide bond between the leucine and valine residues on angiotensinogen, creating the ten-amino acid peptide angiotensin I appear to have no biological activity and exists solely as a precursor to angiotensin 2 [2][3][4].

## Solubility Information

Solubility	DMSO: ≥36.5 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.7365 mL	13.6825 mL	27.365 mL
5 mM	0.5473 mL	2.7365 mL	5.473 mL
10 mM	0.2737 mL	1.3683 mL	2.7365 mL
50 mM	0.0547 mL	0.2737 mL	0.5473 mL

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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.

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