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## Product Data Sheet

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Product Name: Angiotensin 1/2 (5-7)

Cat. No.: GP10079

**Chemical Properties**

Cas. No.

SMILES N[C@@H]([C@H](C)CC)C(N[C@@H](CC1=CNC=N1)C(N2CCC[C@@H]2C(O)=O)=O)=O

Formula	C <sub>17</sub> H <sub>27</sub> N <sub>5</sub> O <sub>4</sub>	M.Wt	365.43
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Solubility	≥ 36.5mg/mL in DMSO	Storage	Store at -20°C
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General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Angiotensin 1/2 (5-7), (C<sub>17</sub>H<sub>27</sub>N<sub>5</sub>O<sub>4</sub>), a peptide with the sequence H<sub>2</sub>N-Ile-His-Pro-OH, MW=365.43. Angiotensin is a peptide hormone that causes vasoconstriction and a subsequent increase in blood pressure. Angiotensin is an oligopeptide and is a hormone and a powerful dipsogen. 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<sup>1</sup>. 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<sup>2</sup>, or decreased delivery of Na<sup>+</sup> and Cl<sup>-</sup> to the macula densa<sup>3</sup>. 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 (Leu) and valine (Val) residues on angiotensinogen, creating the ten-amino acid peptide (des-Asp) angiotensin I. Angiotensin I appears to have no biological activity and exists solely as a precursor to angiotensin 2.

References:

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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1. Basso N, Terragno NA (December 2001). "History about the discovery of the renin-angiotensin system". Hypertension 38 (6): 1246-9.
2. Skurk T, Lee YM, Hauner H (May 2001). "Angiotensin II and its metabolites stimulate PAI-1 protein release from human adipocytes in primary culture". Hypertension 37 (5): 1336-40.
3. Williams GH, Dluhy RG (2008). "Chapter 336: Disorders of the Adrenal Cortex". In Loscalzo J, Fauci AS, Braunwald E, Kasper DL, Hauser SL, Longo DL. Harrison's principles of internal medicine. McGraw-Hill Medical.

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