

**Product Name:** CGP 42112  
**CAS Number:** 127060-75-7

**Catalog No.:** 2569 **Batch No.:** 2

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>52</sub>H<sub>69</sub>N<sub>13</sub>O<sub>11</sub>  
**Batch Molecular Weight:** 1052.2  
**Physical Appearance:** white lyophilised solid  
**Net Peptide Content:** 71.1%  
**Counter Ion:** TFA  
**Solubility:** Soluble to 1 mg/ml in water  
**Storage:** Desiccate at -20°C  
**Peptide Sequence:** N-α-Nicotinoyl-Tyr-Lys-(N-α-Z-Arg)-His-Pro-Ile

**2. ANALYTICAL DATA**

**HPLC:** Shows 99.2% purity  
**Mass Spectrum:** Consistent with structure

**3. AMINO ACID ANALYSIS DATA**

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala				Lys	1.00	0.98	
Arg	1.00	1.04	Met				
Asx			Phe				
Cys			Pro	1.00	1.04		
Glx			Ser				
Gly			Thr				
His	1.00	1.01	Trp				
Ile	1.00	0.98	Tyr	1.00	0.82		
Leu			Val				

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Selective, high affinity angiotensin AT<sub>2</sub> receptor ligand (K<sub>i</sub> = 0.24 nM). Displays agonistic properties at proximal tubule AT<sub>2</sub> receptors, causes Na<sup>+</sup>, K<sup>+</sup>-ATPase inhibition and sodium excretion. Antagonizes Ang-II induced contractions in rabbit aortic rings (IC<sub>50</sub> = 1850 nM).

**Physical and Chemical Properties:**

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Batch Molecular Weight: 1052.2

Physical Appearance: white lyophilised solid

**Peptide Sequence:**

N- $\alpha$ -Nicotinoyl-Tyr-Lys-(N- $\alpha$ -Z-Arg)-His-Pro-Ile

**Storage:** Desiccate at -20°C

**Solubility & Usage Info:**

Soluble to 1 mg/ml in water

**Net Peptide Content:** 71.1% (Remaining weight made up of counterions and residual water).

**Counter Ion:** TFA

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

**References:**

**Criscione *et al*** (1990) Binding characteristics and vascular effects of various angiotensin II antagonists. *J.Cardiovas.Pharmacol.* **16** (Suppl. 4) S56.

**Naveri** (1995) The role of angiotensin receptor subtypes in cerebrovascular regulation in the rat. *Acta.Physiol.Scand.Suppl.* **630** 1. PMID: 8610501.

**Hakam and Hussain** (2006) Angiotensin II AT<sub>2</sub> receptors inhibit proximal tubular Na<sup>+</sup>-K<sup>+</sup>-ATPase activity via a NO/cGMP-dependent pathway. *Am.J.Physiol.Renal Physiol.* **290** F1430. PMID: 16380464.

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