

## Certificate of Analysis

**Product Name:** A 779  
**CAS Number:** 159432-28-7

**Catalog No.:** 5937      **Batch No.:** 2

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>39</sub>H<sub>60</sub>N<sub>12</sub>O<sub>11</sub>  
**Batch Molecular Weight:** 872.98  
**Physical Appearance:** White lyophilised solid  
**Net Peptide Content:** 66%  
**Counter Ion:** TFA  
**Solubility:** Soluble to 1 mg/ml in water  
**Storage:** Store at -20°C  
**Peptide Sequence:** Asp-Arg-Val-Tyr-Ile-His-D-Ala

### 2. ANALYTICAL DATA

**HPLC:** Shows 95.7% purity  
**Mass Spectrum:** Consistent with structure

### 3. AMINO ACID ANALYSIS DATA

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala	1.00	0.98	Lys				
Arg	1.00	1.00	Met				
Asx	1.00	1.06	Phe				
Cys			Pro				
Glx			Ser				
Gly			Thr				
His	1.00	0.99	Trp				
Ile	1.00	0.97	Tyr	1.00	0.95		
Leu			Val	1.00	1.06		

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**Product Name:** A 779  
CAS Number: 159432-28-7**Catalog No.:** 5937 **Batch No.:** 2**Description:**

Selective Mas receptor (Ang-(1-7) receptor) antagonist. Exhibits no significant affinity for AT<sub>1</sub> or AT<sub>2</sub> receptors at a concentration of 1 µM. Inhibits antidiuretic effect of Ang-(1-7) in water-loaded rats. Also attenuates Monocrotaline-induced pulmonary fibrosis in rats.

**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>39</sub>H<sub>60</sub>N<sub>12</sub>O<sub>11</sub>  
Batch Molecular Weight: 872.98  
Physical Appearance: White lyophilised solid

**Peptide Sequence:****Asp-Arg-Val-Tyr-Ile-His-D-Ala****Storage:** Store at -20°C**Solubility & Usage Info:**

Soluble to 1 mg/ml in water

**Net Peptide Content:** 66% (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).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

**References:**

**Bruce et al** (2015) Selective activation of angiotensin AT<sub>2</sub> receptors attenuates progression of pulmonary hypertension and inhibits cardiopulmonary fibrosis. *Br.J.Pharmacol.* **172** 2219. PMID: 25522140.

**Becker et al** (2005) Cardiovascular effects of angiotensin II and angiotensin-(1-7) at the RVLM of trained normotensive rats. *Brain Res.* **1040** 121. PMID: 15804433.

**Santos et al** (1994) Characterization of a new angiotensin antagonist selective for angiotensin-(1-7): evidence that the actions of angiotensin-(1-7) are mediated by specific angiotensin receptors. *Brain Res.Bull.* **35** 293. PMID: 7850477.

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**bio-techne.com**  
info@bio-techne.com  
techsupport@bio-techne.com**North America**  
Tel: (800) 343 7475**China**  
info.cn@bio-techne.com  
Tel: +86 (21) 52380373**Europe Middle East Africa**  
Tel: +44 (0)1235 529449**Rest of World**  
www.tocris.com/distributors  
Tel: +1 612 379 2956