

Certificate of Analysis

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

Catalog No.: 5937 **Batch No.:** 3

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₉H₆₀N₁₂O₁₁
Batch Molecular Weight: 872.98
Physical Appearance: White lyophilised solid
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 97.1% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala		1.00	0.99	Lys			
Arg		1.00	1.01	Met			
Asx		1.00	1.05	Phe			
Cys				Pro			
Glx				Ser			
Gly				Thr			
His		1.00	0.98	Trp			
Ile		1.00	0.97	Tyr	1.00	1.03	
Leu				Val	1.00	0.97	

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

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CAS Number: 159432-28-7

Description:

A 779 is a selective Mas receptor (Ang-(1-7) receptor) antagonist. Exhibits no significant affinity for AT₁ or AT₂ 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.

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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

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 AT₂ 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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