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TOCRIS

Print Date: Oct 30th 2024

Certificate of Analysis

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Product Name: **A 779** **Catalog No.: 5937** **Batch No.: 4**

CAS Number: 159432-28-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{39}H_{60}N_{12}O_{11}$
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 97.4% purity
Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala	1.00	1.00	Lys		
Arg	1.00	0.98	Met		
Asx	1.00	1.07	Phe		
Cys			Pro		
Glx			Ser		
Gly			Thr		
His	1.00	1.00	Trp		
Ile	1.00	0.97	Tyr	1.00	1.02
Leu			Val	1.00	0.96

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

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

Product Name: A 779 **Catalog No.:** 5937 4

CAS Number: 159432-28-7

Description:

A 779 is a selective Mas receptor (Ang-(1-7) receptor) antagonist. Exhibits no significant affinity for AT_1 or AT_2 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: $C_{39}H_{60}N_{12}O_{11}$

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 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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