

Certificate of Analysis

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Product Name: BQ-123
CAS Number: 136553-81-6

Catalog No.: 1188 **Batch No.:** 19

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₁H₄₂N₆O₇
Batch Molecular Weight: 611
Physical Appearance: White lyophilised solid
Counter Ion: Sodium
Solubility: Soluble to 0.40 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Cyclo(D-Trp-D-Asp-Pro-D-Val-Leu)

2. ANALYTICAL DATA

HPLC: Shows 98.6% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical			Actual		
Ala			Lys		
Arg			Met		
Asx	1.00	1.01	Phe		
Cys			Pro	1.00	1.01
Glx			Ser		
Gly			Thr		
His			Trp	1.00	0.54
Ile			Tyr		
Leu	1.00	0.99	Val	1.00	0.99

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

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Product Name: BQ-123

Catalog No.: 1188

Batch No.: 19

CAS Number: 136553-81-6

Description:

BQ-123 is a selective ET_A endothelin receptor antagonist (K_i values are 1.4 and 1500 nM at ET_A and ET_B receptors respectively). Reduces ischemia-induced ventricular arrhythmias in a rat model.

Physical and Chemical Properties:

Batch Molecular Formula: C₃₁H₄₂N₆O₇

Batch Molecular Weight: 611

Physical Appearance: White lyophilised solid

Peptide Sequence:

Cyclo(D-Trp-D-Asp-Pro-D-Val-Leu)

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 0.40 mg/ml in water

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Counter Ion: Sodium

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:

Agapitov and Haynes (2002) Role of endothelin in cardiovascular disease. J.Renin Angiotensin Aldosterone Syst. **3** 1. PMID: 11984741.

Makatani et al (2000) Effect of a novel bifunctional endothelin receptor antagonist, IRL 3630A, on guinea pig respiratory mechanics. Eur.J.Pharmacol. **406** 139. PMID: 11011045.

Ekelund et al (1994) Effects of selective ET_B-receptor stimulation on arterial, venous and capillary functions in cat skeletal muscle. Br.J.Pharmacol. **112** 887. PMID: 7921617.

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