


Certificate of Analysis

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Product Name: IRL-1038
CAS Number: 144602-02-8

Catalog No.: 1195 **Batch No.:** 8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{68}H_{94}N_{14}O_{15}S_2$
Batch Molecular Weight: 1410
Physical Appearance: White lyophilised solid
Net Peptide Content: 73%
Counter Ion: Acetate
Solubility: Soluble to 1 mg/ml in 20% acetonitrile
Storage: Desiccate at -20°C
Peptide Sequence: 
 Cys-Val-Tyr-Phe-Cys-His-Leu-Asp-Ile-Ile-Trp

2. ANALYTICAL DATA

HPLC: Shows >96% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala			Lys		
Arg			Met		
Asx	1.00	0.99	Phe	1.00	1.00
Cys			Pro		
Glx			Ser		
Gly			Thr		
His	1.00	1.01	Trp		
Ile	2.00	1.39	Tyr	1.00	0.97
Leu	1.00	1.00	Val	1.00	0.93

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

Product Information

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Product Name: IRL-1038
CAS Number: 144602-02-8

Catalog No.: 1195 **Batch No.:** 8

Description:

ET_B endothelin receptor antagonist.

Physical and Chemical Properties:

Batch Molecular Formula: C₆₈H₉₄N₁₄O₁₅S₂

Batch Molecular Weight: 1410

Physical Appearance: White lyophilised solid

Peptide Sequence:

Cys-Val-Tyr-Phe-Cys-His-Leu-Asp-Ile-Ile-Trp

Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in 20% acetonitrile

This product is supplied as a lyophilized solid and may 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.

Net Peptide Content: 73% (Remaining weight made up of counterions and residual water).

Counter Ion: Acetate

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:

Haynes et al (1993) Endothelin; progress in pharmacology and physiology. *TiPS* **14** 225. PMID: 8372400.

Karaki et al (1993) ET_B receptor antagonist, IRL 1038, selectively inhibits the endothelin-induced endothelium-dependent vascular relaxation. *Eur.J.Pharmacol.* **231** 371. PMID: 8449230.

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