bio-techne
TOCRIS

Print Date: Apr 28th 2023

Certificate of Analysis

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Product Name: **PMX 53c** **Catalog No.: 5697** **Batch No.: 3**

CAS Number: 827600-15-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{39}H_{60}N_{10}O_7$

Batch Molecular Weight: 780.96

Physical Appearance: White lyophilised solid

Counter Ion: TFA

Solubility: Soluble to 2 mg/ml in water

Storage: Store at -20°C

Peptide Sequence: Ac-Phe-cyclo(Orn-Pro-D-Cha-Ala-D-Arg)

2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala	1.00	1.02	Lys		
Arg	1.00	1.03	Met		
Asx			Phe	1.00	0.94
Cys			Pro	1.00	1.00
Glx			Ser		
Gly			Thr		
His			Trp		
Ile			Tyr		
Leu			Val		

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Product Name: **PMX 53c** **Catalog No.: 5697** **3**

CAS Number: 827600-15-7

Description:

PMX 53c is a negative control for PMX 53. Active Analog also available.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{39}H_{60}N_{10}O_7$

Batch Molecular Weight: 780.96

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ac-Phe-cyclo(Orn-Pro-D-Cha-Ala-D-Arg)

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 2 mg/ml in water

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.

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:

Subramanian *et al* (2011) PMX-53 as a dual CD88 antagonist and an agonist for Mas-related gene 2 (MrgX2) in human mast cells. Mol.Pharmacol. ***79*** 1005. PMID: 21441599.