



Certificate of Analysis

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Product Name: DPC AJ1951 Catalog No.: 5487 Batch No.: 1

CAS Number: 943519-33-3

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{76}H_{127}N_{23}O_{19}$

Batch Molecular Weight: 1666.98

Physical Appearance: White lyophilised solid

Net Peptide Content: 73% Counter Ion: TFA

Solubility: Soluble to 1 mg/ml in water

Storage: Store at -20°C

Peptide Sequence: Aib-Val-Aib-Glu-lle-Gln-Leu-Nle-His-Gln-

Arg-Ala-Lys-Tyr-NH₂

2. ANALYTICAL DATA

HPLC: Shows 98% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actua
Ala	1.00	0.98	Lys	1.00	1.00
Arg	1.00	1.05	Met		
Asx			Phe		
Cys			Pro		
Glx	3.00	2.99	Ser		
Gly			Thr		
His	1.00	0.98	Trp		
lle	1.00	0.99	Tyr	1.00	1.02
Leu	1.00	0.92	Val	1.00	1.04



Product Information

Print Date: Jan 16th 2016

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Product Name: DPC AJ1951 Catalog No.: 5487 Batch No.: 1

CAS Number: 943519-33-3

Description:

Potent 14 amino acid peptide agonist of the parathyroid hormone (PTH) receptor (EC₅₀ = 26 nM).

Physical and Chemical Properties:

Batch Molecular Formula: $C_{76}H_{127}N_{23}O_{19}$ Batch Molecular Weight: 1666.98

Physical Appearance: White lyophilised solid

Peptide Sequence:

Aib-Val-Aib-Glu-Ile-Gln-Leu-Nle-His-Gln-Arg-Ala-Lys-Tyr-NH₂ Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 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.

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

Carter et al (2007) Discovery of a small molecule antagonist of the parathyroid hormone receptor by using an N-terminal parathyroid hormone peptide probe. Proc.Natl.Acad.Sci.U.S.A. 104 6846. PMID: 17428923.