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Print Date: Nov 12th 2018

Certificate of Analysis

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Product Name:	Melanotan II
CAS Number:	121062-08-6

Catalog No.: 2566 Ba

Batch No.: 5

1.	PHYSICAL AND CHEMICAL PROPERTIES						
	Batch Molecular Formula:	C ₅₀ H ₆₉ N ₁₅ O ₉					
	Batch Molecular Weight:	1024.19					
	Physical Appearance:	White lyophilised solid					
	Net Peptide Content:	74%					
	Counter Ion:	TFA					
	Solubility:	Soluble to 0.70 mg/ml in water					
	Storage:	Desiccate at -20°C					
	Peptide Sequence:	Ac-Nle-cyclo-(β-Asp-His-D-Phe-Arg-Trp -ε-Lys)-NH ₂					
2.	ANALYTICAL DATA						
	HPLC:	Shows 97.8% purity					
	Mass Spectrum:	Consistent with structure					
3.	AMINO ACID ANALYSIS DATA	Amino Acid Theoretical Actual Amino Acid Theoretical Actual					
		Ala			Lys	1.00	0.93
		Arg	1.00	1.07	Met		
		Asx	1.00	0.93	Phe	1.00	1.15
	FC	Cys			Pro		
		Glx			Ser		
	~	Gly			Thr		
		His	1.00	1.07	Trp		
		lle			Tyr		
		Leu			Val		

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

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Product Name: Melanotan II

displays neuroprotective properties in vivo.

Physical Appearance: White lyophilised solid

Ac-NIe-cyclo-(β-Asp-His-D-Phe-Arg-Trp

Physical and Chemical Properties:

Batch Molecular Weight: 1024.19

Peptide Sequence:

-e-Lys)-NH2

Batch Molecular Formula: C₅₀H₆₉N₁₅O₉

CAS Number: 121062-08-6

Description:

Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 0.70 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: 74% (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 μ m filter to remove potential bacterial contamination whenever possible.

References:

Ter Laak *et al* (2003) The potent melanocortin receptor agonist melanotan-II promotes peripheral nerve regeneration and has neuroprotective properties in the rat. Eur.J.Pharmacol. **462** 179. PMID: 12591111.

Martin et al (2002) Activation of melanocortin MC4 receptors increases erectile activity in rats ex copula. Eur.J.Pharmacol. 454 71. PMID: 12409007.

Wikber (1999) Melanocortin receptors: perspectives for novel drugs. Eur.J.Pharmacol. 375 395.

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High affinity melanocortin receptor agonist (K_i values are 0.67,

6.6, 34 and 46 nM for MC1, MC4, MC3 and MC5 receptors

respectively). Stimulates erectile activity, inhibits food intake and

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