

White Paper  
Melanotan II 6C Homeopathic Oral Spray (Organic Alcohol Base)  
Educational Summary

For Healthcare & Wellness Professionals

Format: Oral Spray (Organic Alcohol Base)  
Potency: 6C Homeopathic Dilution

### 1) Executive Summary

Melanotan II 6C Oral Spray is a homeopathic oral spray formulation prepared in an organic alcohol base and designed for convenient clinical dispensing and patient-friendly use.

Melanotan II is widely discussed in scientific literature as a synthetic analog of  $\alpha$ -MSH (alpha-melanocyte stimulating hormone) and is associated with the melanocortin receptor system (MC1R–MC5R). This system is recognized for its relevance in pigmentation, energy balance, and other physiological signaling pathways.

Melanotan-II-6c-spray\_2024.8

### 2) Product Overview

Product Name

Melanotan II 6C Homeopathic Oral Spray

Delivery Form

Oral spray (commonly used sublingually/orally)

Base

Organic alcohol carrier

Intended Professional Use

Designed for clinics seeking a simple, modern spray format

Suitable for wellness-focused protocols and patient convenience

### 3) Scientific Background

Melanotan II and  $\alpha$ -MSH

Melanotan II is described as a synthetic analog of  $\alpha$ -MSH, a naturally occurring melanocortin hormone involved in melanocortin signaling.

Melanotan-II-6c-spray\_2024.8

The Melanocortin Receptor System

The melanocortin system includes five G-protein coupled receptors (MC1R–MC5R). Research suggests this pathway plays a role in:

Pigmentation and melanogenesis

Feeding patterns and appetite signaling

Weight and energy balance physiology

Melanotan-II-6c-spray\_2024.8

#### 4) Mechanism of Interest

Melanotan II is described as a non-selective agonist of melanocortin receptors, with activity at:

MC1R (commonly associated with melanogenesis/pigmentation signaling)

MC3R and MC4R (commonly associated with appetite and metabolic signaling)

MC5R (additional physiological roles under continued research interest)

Melanotan-II-6c-spray\_2024.8

#### 5) Supportive Research Highlights

##### A) Pigmentation Support (Sunless Tanning Interest)

Melanotan II has been used and discussed as a sunless tanning agent to support enhanced pigmentation goals.

Melanotan-II-6c-spray\_2024.8

A qualitative analysis of user discussions reported motivations related to achieving a tanned appearance, including for lifestyle and aesthetic goals.

Melanotan-II-6c-spray\_2024.8

##### B) Appetite and Weight Management Pathway Support

The central melanocortin system is widely recognized as important in energy homeostasis regulation.

Melanotan-II-6c-spray\_2024.8

Melanotan II has been described as supporting appetite-related signaling and body-mass regulation through melanocortin receptor activity, particularly involving melanocortin receptor pathways studied for metabolic processes such as thermogenesis and lipolysis signaling.

Melanotan-II-6c-spray\_2024.8

### C) Additional Wellness Research Interest Areas

Scientific interest in melanocortin receptor pathways includes additional areas such as:

Inflammation signaling pathways

Memory-related research interest

Sexual desire and arousal pathway research

Melanotan-II-6c-spray\_2024.8

Your source document also highlights that melanocortin-related compounds (including PT-141 in published research) have been studied in relation to sexual response and dopamine signaling, reinforcing broad clinical interest in melanocortin receptor pathways.

Melanotan-II-6c-spray\_2024.8

### 6) Why Clinics Prefer an Oral Spray Format

Clinics often select oral spray delivery formats because they are:

Easy to administer

Convenient for patient use

Efficient for clinic workflow

Compatible with wellness protocols and simple dosing routines

The organic alcohol base supports a stable, preservative-friendly delivery system commonly used in professional spray preparations.

### 7) Conclusion

Melanotan II is a synthetic analog of  $\alpha$ -MSH associated with the melanocortin receptor system (MC1R–MC5R), a pathway linked in research to pigmentation, appetite signaling, and energy balance physiology. Melanotan II 6C homeopathic oral spray provides a convenient clinic-friendly option in an organic alcohol base, designed for professional wellness use and patient convenience.

Melanotan-II-6c-spray\_2024.8

### References

Gilhooley E, Daly S, McKenna D. Melanotan II User Experience: A Qualitative Study of Online Discussion Forums. *Dermatology*. 2021;237(6):995–999. doi:10.1159/000514492

Melanotan-II-6c-spray\_2024.8

Côté I, Sakarya Y, Kirichenko N, et al. Activation of the central melanocortin system chronically reduces body mass without the necessity of long-term caloric restriction. *Can J Physiol Pharmacol.* 2017;95(2):206–214. doi:10.1139/cjpp-2016-0290

Melanotan-II-6c-spray\_2024.8

Butler AA, Cone RD. The melanocortin receptors: lessons from knockout models. *Neuropeptides.* 2002;36(2–3):77–84. doi:10.1054/npep.2002.0890

Melanotan-II-6c-spray\_2024.8

Mountjoy KG. Distribution and function of melanocortin receptors within the brain. *Adv Exp Med Biol.* 2010;681:29–48. doi:10.1007/978-1-4419-6354-3\_3

Melanotan-II-6c-spray\_2024.8

Diamond LE, Earle DC, Rosen RC, et al. Double-blind placebo-controlled evaluation of intranasal PT-141. *Int J Impot Res.* 2004;16(1):51–59. doi:10.1038/sj.ijir.3901139

Melanotan-II-6c-spray\_2024.8