



LKT Laboratories, Inc.

Melanotan II

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Product Information

Product ID M1650

CAS No. 121062-08-6

Chemical Name L-Lysinamide,N-acetyl-L-norleucyl-L-alpha-aspartyl- L-histidyl-D-phenylalanyl-L-arginyl-L-tryptophyl- ,cyclic (2-7)-peptide

Synonym MT-II

Formula C₅₀H₆₉N₁₅O₉

Formula Wt. 1024.2

Melting Point

Purity ≥98%

Solubility Soluble in water.

Store Temp -20° C

Ship Temp Ambient

Description Melanotan II is a synthetic melanocortin peptide analog that exhibits thermogenic, anti-inflammatory, and anti-atherosclerotic activities; it non-selectively binds melanocortin receptors. Melanotan II was originally designed to promote skin pigmentation, but has since been shown to induce arousal and increase body temperature in clinical settings and animal models. Melanotan II also decreases fluorodeoxyglucose uptake in atherosclerotic plaques, decreases pro-inflammatory cytokine levels, and increases aortic vasorelaxation in animal models of atherosclerosis.

Ac-Nle-Asp-His-D-Phe-Arg-
Trp-Lys-NH₂
(Lactam bridge Asp²-Lys⁷)

Bulk quantities available upon request

Product ID	Size
M1650	5 mg
M1650	10 mg
M1650	25 mg

References Monge-Roffarello B, Labbé SM, Lenglos C, et al. The medial preoptic nucleus as a site of the thermogenic and metabolic actions of Melanotan II in male rats. *Am J Physiol Regul Integr Comp Physiol.* 2014 May 7. [Epub ahead of print]. PMID: 24808495.

Rinne P, Silvola JM, Hellberg S, et al. Pharmacological Activation of the Melanocortin System Limits Plaque Inflammation and Ameliorates Vascular Dysfunction in Atherosclerotic Mice. *Arterioscler Thromb Vasc Biol.* 2014 May 1. [Epub ahead of print]. PMID: 24790139.

Hjuler KF, Lorentzen HF. Melanoma associated with the use of melanotan-II. *Dermatology.* 2014;228(1):34-6. PMID: 24355990.

Hadley ME. Discovery that a melanocortin regulates sexual functions in male and female humans. *Peptides.* 2005 Oct;26(10):1687-9. PMID: 15996790.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.