



LKT Laboratories, Inc.

[Nle4, D-Phe7]- $\alpha$ -Melanocyte Stimulating Hormone

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## Product Information

Product ID M7530

CAS No. 75921-69-6

### Chemical Name

Synonym NDP-MSH, Melanotan I, afamelanotide

Formula  $C_{78}H_{111}N_{21}O_{19}$

Formula Wt. 1646.9

### Melting Point

Purity  $\geq 98\%$

Solubility Soluble in water (0.6 mg/mL).

Store Temp  $-20^{\circ}C$

Ship Temp Ambient

**Description** Melanotan-I (NDP-MSH) is a semi-synthetic melanocortin analog that activates the melanocortin receptor. NDP-MSH exhibits both pro-inflammatory and anti-inflammatory activities in various models. In animal models of liver regeneration, NDP-MSH increases levels of IL-6, promotes signaling by STAT and SOCS, and inhibits the decline in I $\kappa$ B $\alpha$  levels. In animal models of peritonitis, NDP-MSH decreases neutrophil trafficking and inhibits vascular leakage and leukocyte rolling and adhesion. Additionally, NDP-MSH inhibits subarachnoid hemorrhage-induced stress, inflammation, vascular remodeling, and apoptosis in other animal models.

Ac-Ser-Tyr-Ser-Nle-Glu-His-DPhe-Arg-Trp-Gly-Lys-Pro-Val-NH<sub>2</sub>

## Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
M7530	5 mg	\$176.40
M7530	25 mg	\$705.80

**References** Lonati C, Carlin A, Leonardi P, et al. Modulatory effects of NDP-MSH in the regenerating liver after partial hepatectomy in rats. *Peptides*. 2013 Dec;50:145-52. PMID: 24446557.

Figueiredo J, Ferreira AE, Silva RL, et al. NDP-MSH inhibits neutrophil migration through nicotinic and adrenergic receptors in experimental peritonitis. *Naunyn Schmiedebergs Arch Pharmacol*. 2013 Apr;386(4):311-8. PMID: 23338711.

Gatti S, Lonati C, Acerbi F, et al. Protective action of NDP-MSH in experimental subarachnoid hemorrhage. *Exp Neurol*. 2012 Mar;234(1):230-8. PMID: 22230666.

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