

(Nle4)- α -MSH

Cat. No.:	HY-P3645
CAS No.:	64887-70-3
Molecular Formula:	C ₇₈ H ₁₁₁ N ₂₁ O ₁₉
Molecular Weight:	1646.85
Sequence Shortening:	Ac-SYS-{Nle}-EHFRWGKPV-NH ₂
Target:	Melanocortin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	(Nle4)- α -MSH is a synthetic analogue of α-MSH (HY-P0252), a melanocyte-stimulating hormone. (Nle4)- α -MSH reversibly darkens frog skins and also exhibits prolonged activity after heat-alkali treatment ^[1] .
IC ₅₀ & Target	tyrosinase; melanoma adenylate cyclase ^[1]
In Vitro	(Nle4)- α -MSH shows a better bioactivity than α-MSH in frog skin bioassay, activation of mouse melanoma adenylate cyclase, and stimulation of mouse melanoma cell tyrosinase activity ^[1] . (Nle4)- α -MSH (0.1 nM; 0.5, 4, 8 h) stimulates tyrosinase activity in melanoma cells (NCTC 3960) ^[1] . (Nle4)- α -MSH (0.1 nM; 1-4 h) increases biological activity of melanotropins, indicating darkening response of frog skins ^[1] . (Nle4)- α -MSH (0.1 μ g) also activates mouse melanoma adenylate cyclase ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sawyer TK, et al. 4-Norleucine, 7-D-phenylalanine-alpha-melanocyte-stimulating hormone: a highly potent alpha-melanotropin with ultralong biological activity. Proc Natl Acad Sci U S A. 1980 Oct;77(10):5754-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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