

## Melanostatin, frog

Cat. No.:	HY-P10265
CAS No.:	134709-16-3
Molecular Formula:	C <sub>189</sub> H <sub>285</sub> N <sub>53</sub> O <sub>57</sub> S
Molecular Weight:	4243.67
Sequence:	Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Lys-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH <sub>2</sub>
Sequence Shortening:	YPSKPDNPGEDAPAEDMAKYYSALRHYINLITRQRY-NH <sub>2</sub>
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	Melanostatin, frog is an inhibitor for $\alpha$ -melanocyte-stimulating hormone ( $\alpha$ -MSH) release, with an IC <sub>50</sub> of 60 nM <sup>[1][2]</sup> .
In Vitro	Melanostatin, frog (1 $\mu$ M) increases the potassium current, decreases the sodium and calcium currents, and thus hyperpolarizes the cell membrane <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Valentijn JA, et al., Melanostatin (NPY) inhibited electrical activity in frog melanotrophs through modulation of K<sup>+</sup>, Na<sup>+</sup> and Ca<sup>2+</sup> currents. J Physiol. 1994 Mar 1;475(2):185-95.

[2]. Chartrel N, et al., Characterization of melanotropin-release-inhibiting factor (melanostatin) from frog brain: homology with human neuropeptide Y. Proc Natl Acad Sci U S A. 1991 May 1;88(9):3862-6.

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

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