

Myoregulin

Cat. No.:	HY-P6008
Molecular Formula:	C ₂₃₉ H ₃₉₁ N ₅₃ O ₆₇ S ₃
Molecular Weight:	5175.17
Sequence:	Met-Ser-Gly-Lys-Ser-Trp-Val-Leu-Ile-Ser-Thr-Thr-Ser-Pro-Gln-Ser-Leu-Glu-Asp-Glu-Ile-Leu-Gly-Arg-Leu-Leu-Lys-Ile-Leu-Phe-Val-Leu-Phe-Val-Asp-Leu-Met-Ser-Ile-Met-Tyr-Val-Val-Ile-Thr-Ser
Sequence Shortening:	MSGKSWLISTTSPQSLEDEILGRLLKILFVLFVDLMSIMYVWITS
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Myoregulin (MLN peptide) is a member of the regulin family. Myoregulin regulates muscle performance by modulating intracellular calcium handling. Myoregulin interacts directly with sarcoplasmic reticulum Ca²⁺-ATPase (SERCA) and impedes Ca²⁺ uptake into the sarcoplasmic reticulum^{[1][2]}.

REFERENCES

- [1]. Anderson DM, et al. A micropeptide encoded by a putative long noncoding RNA regulates muscle performance. *Cell*. 2015 Feb 12;160(4):595-606.
- [2]. Xinqiang Yin, et al. Distribution of micropeptide-coding sORFs in transcripts. *Chinese Chemical Letters*. Volume 29, Issue 7, July 2018, Pages 1029-1032.

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

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