

MCaE12A

Cat. No.:	HY-P5319
Molecular Formula:	C ₁₅₄ H ₂₆₈ N ₅₆ O ₄₄ S ₆
Molecular Weight:	3800.51
Sequence:	Gly-Asp-Cys-Leu-Pro-His-Leu-Lys-Leu-Cys-Lys-Ala-Asn-Lys-Asp-Cys-Cys-Ser-Lys-Lys-Cys-Lys-Arg-Arg-Gly-Thr-Asn-Ile-Glu-Lys-Arg-Cys-Arg (Disulfide bridge:Cys3-Cys17;Cys10-Cys21;Cys16-Cys32)
Sequence Shortening:	GDCLPHLKLCKANKDCCSKKCKRRGTNIEKRCR (Disulfide bridge:Cys3-Cys17;Cys10-Cys21;Cys16-Cys32)
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

MCaE12A is a high-affinity modulator of RyR2 and increases RyR2 sensitivity to cytoplasmic calcium concentrations promoting channel opening. MCaE12A acts as an important tool for RyR2 structure-to-function studies as well as for manipulating Ca²⁺ homeostasis and dynamic of cardiac cell^[1].

REFERENCES

[1]. Stephan De Waard, et al. Maurocalcin and its analog MCaE12A facilitate Ca²⁺ mobilization in cardiomyocytes. *Biochem J.* 2020 Oct 30;477(20):3985-3999.

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

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