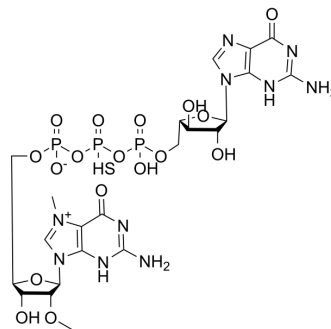


β-S-ARCA

Cat. No.:	HY-145969
CAS No.:	1093268-63-3
Molecular Formula:	C ₂₂ H ₃₁ N ₁₀ O ₁₇ P ₃ S
Molecular Weight:	832.52
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

β-S-ARCA is a mRNA 7-methylguanosine (m⁷G) cap analog carrying a phosphorothioate (PS) moiety. mRNAs incorporating β-S-ARCA have elongated cellular half-lives and showed augmented protein expression. β-S-ARCA D1 has been applied in researching experimental mRNA-based anticancer vaccines^[1].

REFERENCES

[1]. Warminski M, et al. Structural Insights into the Interaction of Clinically Relevant Phosphorothioate mRNA Cap Analogs with Translation Initiation Factor 4E Reveal Stabilization via Electrostatic Thio-Effect. ACS Chem Biol. 2021 Feb 19;16(2):334-343.

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

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