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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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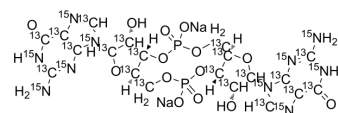
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$^{13}\text{C}_{20}, ^{15}\text{N}_{10}$ -Cyclic di-GMP sodium

Cat. No.:	HY-110382S
Molecular Formula:	$^{13}\text{C}_{20}\text{H}_{22}^{15}\text{N}_{10}\text{Na}_2\text{O}_{14}\text{P}_2$
Molecular Weight:	764.16
Target:	Isotope-Labeled Compounds; Endogenous Metabolite; STING
Pathway:	Others; Metabolic Enzyme/Protease; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

$^{13}\text{C}_{20}, ^{15}\text{N}_{10}$ -Cyclic di-GMP ($^{13}\text{C}_{20}, ^{15}\text{N}_{10}$ -c-di-GMP) is ^{13}C and ^{15}N labeled Cyclic-di-GMP (disodium). Cyclic-di-GMP disodium is a STING agonist and a bacterial second messenger that coordinates different aspects of bacterial growth and behavior, including motility, virulence, biofilm formation, and cell cycle progression. Cyclic-di-GMP disodium has anti-cancer cell proliferation activity and also induces elevated CD4 receptor expression and cell cycle arrest. Cyclic-di-GMP disodium can be used in cancer research^{[1][2][3][4][5]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Karaolis DK, et al. 3',5'-Cyclic diguanylic acid (c-di-GMP) inhibits basal and growth factor-stimulated human colon cancer cell proliferation. *Biochem Biophys Res Commun*. 2005 Apr 1;329(1):40-5.
- [3]. Steinberger O, et al. Elevated expression of the CD4 receptor and cell cycle arrest are induced in Jurkat cells by treatment with the novel cyclic dinucleotide 3',5'-cyclic diguanylic acid. *FEBS Lett*. 1999 Feb 5;444(1):125-9.
- [4]. Wang Z, et al. STING activator c-di-GMP enhances the anti-tumor effects of peptide vaccines in melanoma-bearing mice. *Cancer Immunol Immunother*. 2015 Aug;64(8):1057-66.
- [5]. Jenal U, et al. Cyclic di-GMP: second messenger extraordinaire. *Nat Rev Microbiol*. 2017 May;15(5):271-284.

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

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