

PRODUCT:

Cyclic-di-GMP

ALTERNATE NAMES:

Guanylyl-(3'→5')-3'-guanylic acid, cyclic nucleotide; Cyclic diguanylate; 3',5'-Cyclic diguanylic acid; c-di-GMP

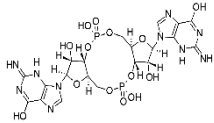
CATALOG NUMBER:

B2045-250, 1000

AMOUNT:

250 µg, 1 mg

STRUCTURE:



MOLECULAR FORMULA:

C₂₀H₂₄N₁₀O₁₄P₂

MOLECULAR WEIGHT:

690.41

CAS NUMBER:

61093-23-0

APPEARANCE:

White to off-white solid

SOLUBILITY:

H₂O (1 mg/ml)

PURITY:

≥95%

STORAGE:

Store at -20 °C. Protect from air and moisture

DESCRIPTION:

Cyclic di-GMP (c-di-GMP) is one of the most important and common bacterial second messenger. It is involved in numerous prokaryotic processes, including biofilm formation, motility, virulence, and cell cycling. c-di-GMP also has functions in eukaryotic cells. It is detected by the transmembrane protein stimulator of interferon genes (STING), leading to activation of the innate immune system.

REFERENCES:

Hengge, R., *et al.* (2016). *J. Bacteriol.* **198**, 15-26.

HANDLING:

Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

- Cyclic-di-GMP (**B2045**)
- cGAMP disodium Salt (**2435**)
- DMXAA (**2804**)
- STING AGONIST G10 (**B2047**)

USAGE:

FOR RESEARCH USE ONLY! Not to be used in humans