

5'-pGpG (sodium salt)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	5'-pGpG is a linearized form of cyclic di-GMP, a bacterial second messenger that activates the host innate immune system through stimulator of interferon genes (STING). 1,2,3It is a metabolite of cyclic di-GMP formed via hydrolysis by various phosphodiesterases (PDEs) that binds to the cyclic di-GMP-I riboswitch with reduced affinity compared to cyclic di-GMP. 4,55'-pGpG is intended for use as a negative control for cyclic di-GMP signaling.
Targets(IC50)	Others

Solubility Information

Solubility	H2O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Burdette, D.L., Monroe, K.M., Sotelo-Troha, K., et al. STING is a direct innate immune sensor of cyclic-di-GMP. *Nature* 478(7370):515-518(2011)

Parvatiyar, K., Zhang, Z., Teles, R.M., et al. DDX41 recognizes bacterial secondary messengers cyclic di-GMP and cyclic di-AMP to activate a type I interferon immune response. *Nat. Immunol.* 13(12):1155-1161(2012)

R?mling, U., Galperin, M.Y., and Gomelsky, M. Cyclic di-GMP: The first 25 years of a universal bacterial second messenger. *Microbiol. Mol. Biol. Rev.* 77(1):1-52(2013)

Smith, K.D., Lipchock, S.V., and Strobel, S.A. Structural and biochemical characterization of linear dinucleotide analogues bound to the c-di-GMP-I aptamer. *Biochemistry* 51(1):425-432(2012)

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