

Cyclic di-UMP (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	Cyclic di-UMP is a pyrimidine-containing cyclic dinucleotide (CDN). It is produced by bacterial cGAS/DncV-like nucleotidyltransferases (CD-NTases), such as LpCdnE02 from <i>L. pneumophila</i> , and binds to cGAS, in the apo or dsDNA-bound forms, with reduced affinity compared to 2'3'-cGAMP or 3'3'-cGAMP. 1,2 Cyclic di-UMP 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

Whiteley, A.T., Eaglesham, J.B., de Oliveira Mann, C.C., et al. Bacterial cGAS-like enzymes synthesize diverse nucleotide signals. *Nature* 564(7747):194-199 (2019)

Hall, J., Ralph, E.C., Shanker, S., et al. The catalytic mechanism of cyclic GMP-AMP synthase (cGAS) and implications for innate immunity and inhibition. *Protein Sci.* 26(12):2367-2380 (2017)

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