
Product Data Sheet

Product Name: 3'3'-cGAMP (sodium salt)

Cat. No.: GC42245

Chemical Properties

Cas. No. 2407516-83-8

SMILES O=C1NC(N)=NC2=C1N=CN2[C@@H]([C@@H]3O)[C@@]([H])([C@]3(OP([O-])(OC[C@]([H])([C@]4(O5)[H])O[C@H]([C@@H]4O)N6C7=NC=NC(N)=C7N=C6)=O)[H])COP5([O-])=O.[Na+].[Na+]

Formula C₂₀H₂₂N₁₀O₁₃P₂•2Na M.Wt 718.4

Solubility Water: 10 mM Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

3'3'-cGAMP is a second messenger produced in bacteria by specific dinucleotide cyclases. It contains canonical 3'5'-phosphodiester bonds and regulates chemotaxis, colonization, and other cellular functions. 3'3'-cGAMP shows weaker binding to the adapter protein stimulator of interferon genes (STING; K_d = 1.04 μM) than 2'2'-cGAMP and 2'3'-cGAMP but has similar binding affinity to 3'2'-cGAMP (K_d = 1.61 μM) and cyclic di-GMP . 3'3'-cGAMP induces IFN-β mRNA expression in L929 cells (EC₅₀ = 40.5 nM).

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

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