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## Product Data Sheet

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Product Name: 3',3'-cGAMP

Cat. No.: GC25014

### Chemical Properties

Cas. No. 849214-04-6(freeacid)

Formula C<sub>20</sub>H<sub>24</sub>N<sub>10</sub>O<sub>13</sub> P<sub>2</sub>·xNa<sup>+</sup>

M.Wt 672.4

Solubility DMSO: 20 mg/mL (29.74 mM);Water: 100 mg/mL (148.72 mM);Ethanol: Insoluble

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 (3',3'-cyclic GMP-AMP, Cyclic GMP-AMP, cGAMP) activates the endoplasmic reticulum (ER)-resident receptor stimulator of interferon genes (STING), thereby inducing an antiviral state and the secretion of type I IFNs.

Sublingual immunization of mice with Bacillus anthracis protective antigen (PA) and the STING ligand 3'3'-cGAMP promotes PA-specific serum IgG Ab responses of the same magnitude as those induced after immunization with PA and the experimental adjuvants cholera toxin (CT). 3'3'-cGAMP also promotes serum anti-PA IgA and IgA-producing cells in the bone marrow. Furthermore, the saliva of mice immunized with 3'3'-cGAMP exhibits similar levels of PA-specific IgA Abs as groups immunized with CT as adjuvant. The adjuvant activity of 3'3'-cGAMP is associated with mixed Th1, Th2, and Th17 responses. 3'3'-cGAMP also induces rapid IFN-β and IL-10 responses in sublingual tissues and cervical lymph nodes, and TGF-β responses in the cervical lymph nodes, which can contribute to promoting IgA responses after sublingual immunization.[1]

[1] Tara L Martin, et al. Vaccine. 2017 Apr 25;35(18):2511-2519.

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

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