cientific pty. ltd.

Newsletter April/May 2020

BIOSCIENTIFIC ARE CONSTANTLY SOURCING TOP QUALITY PRODUCTS

- PLEASE ENQUIRE FOR THAT "HARD TO FIND" PRODUCT! -



Validated Covid-19 Testkit and Virus RNA Prep Kit available

After an increased demand due to the Corona Pandemic we can now offer:

- Viral RNA+DNA Preparation Kit
- Complete validated Covid-19 test kit
- Mastermixes and raw materials for development of Covid-19 test

CLICK labeling: Pyrimidyl tetrazines make unreactive alkenes get a move on

• **Pyrimidyl tetrazines** are the compounds of choice to **tackle poor dienophiles** under **physiological conditions**.



Interactive Assay Solutions™



STING AGONIST cGAMP IS A POTENT VACCINE ADJUVANT

We know the cGAS–STING pathway is a key activator of the innate immune response to cellular damage or microbial infection. Cyclic GMP-AMP Synthase (cGAS) catalyzes the formation of cyclic GMP-AMP (cGAMP) in response to the presence of foreign DNA in the cytoplasm. Cyclic GAMP is a potent activator of the immune response in eukaryotes, where infected cells can induce an antiviral response in effector cells through direct transfer of cGAMP by inclusion in enveloped virions^{1,2}.

Recently, studies have shown that activation of the immune response by cGAMP is an effective strategy for boosting the response to vaccination. This makes cGAMP a potential new vaccine adjuvant for viral diseases like influenza and COVID-19. A recent study by Wang et al. reports cGAMP adjuvants can stimulate a potent immune response³. Additionally, cGAMP induces significantly higher CD4⁺ and CD8⁺ T cell responses in immunized mice, and up-regulates IFN-γ expression in lung tissue of mice in the early stages of a virus challenge. As such, viral vectors loaded with cGAMP is a promising potential vaccine strategy for the novel coronavirus and other emerging pandemics.

Arbor Assays developed the first immunoassay for measuring 2',3'-Cyclic GAMP ELISA (K067-H1/H5, H1D) in 2019, and our newest assay, 3',3'-Cyclic GAMP ELISA (K073-H1/H5), accurately measures 3',3'-cGAMP in bacterial or eukaryotic cell lysates using a simple and convenient ELISA format. These innovative and valuable tools will facilitate further understanding of the role cyclic dinucleotides play in health and disease. Recombinant Proteins for Biopharma Industry



The world's first full length S protein with trimer structure verified by MALS







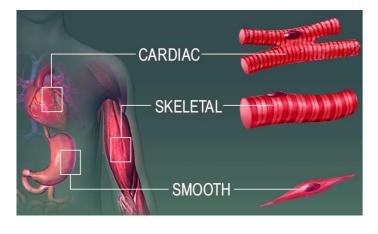
BIOSYSTEMS

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Cells and Media for Research

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See website for blogs and more information on these topics and many others;





SUCCESS IS IN THE DELIVERY

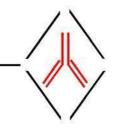
No More Injections

+ Implantable infusion pumps for convenient dosing
+ Over 40 years of proven quality and reliable results
+ Small sizes available for mice and rats
+ Simple design and easy to use

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