



#U0200G Green Upward cADDIs cAMP
#D0200G Green Downward cADDIs cAMP
#U0200R Red Upward cADDIs cAMP

Materials included

- cADDIs cAMP sensor in BacMam vector $\sim 2 \times 10^{10}$ VG/mL in TNM-FH Insect Culture Medium (Allele Biotech product #ABP-MED-10001).
Baculovirus stock should be stored at 4°C and protected from light. Avoid repeated freeze/thaw cycles
- $\beta 2$ Adrenergic Receptor in BacMam vector in TNM-FH Insect Culture Medium (Allele Biotech product #ABP-MED-10001).
This G_s-coupled receptor is a good positive control for the assay. Mix the receptor BacMam with the cADDIs BacMam according to the protocol. Activate this receptor with isoproterenol.
Baculovirus stock should be stored at 4°C and protected from light. Avoid repeated freeze/thaw cycles.
- Sodium Butyrate (Sigma Aldrich product # B5887) 500 mM in H₂O.
Add Sodium Butyrate to the culture to maintain BacMam expression. Other HDAC inhibitors may work as well or even better in certain cell types.
- Isoproterenol 10 mM in 10 mM HCl
Isoproterenol stimulates G_s signaling through the $\beta 2$ Adrenergic receptor resulting in an increase in cAMP that is easily detectable with cADDIs.

Biosafety

BacMam is the modified baculovirus, *Autographa californica*, AcMNPV. Baculovirus is pseudotyped to infect mammalian cells, but it cannot replicate in the cells and its genome is silent in mammalian cells. While it should be handled carefully, in a sterile environment, it is classified as a BSL 1 reagent.

This product is for research use only and is not recommended for use or sale in human or animal diagnostic or therapeutic products.

Detailed protocols are available on the Montana Molecular Website under the Home Page Menu > Protocols

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