

#D0400G Green PIP₂ Assay

Materials Included:

- PIP₂ sensor BacMam ~ 6x10⁹ VG/mL in TNM-FH Insect Culture Medium.
Green fluorescent sensors that decrease in fluorescence intensity when PIP₂ levels decrease. Store BacMam stock at 4°C, protected from light. Avoid repeated freeze/thaw cycles.
- Sodium Butyrate (Sigma Aldrich product number B5887) 500 mM in H₂O.
Sodium Butyrate is added to the culture to maintain BacMam expression. Other HDAC inhibitors may work as well. Stocks should be stored at 4°C.
- HM1 Muscarinic Receptor BacMam in TNM-FH Insect Culture Medium (Allele Biotech product #ABP-MED-10001)
M1 receptor is included as a positive control. This virus can be mixed with the DAG sensor virus so that cells express both M1 receptor and the DAG sensor. Store BacMam stock at 4°C, protected from light. Avoid freeze/thaw cycles.
- Carbachol 25 mM in H₂O
Carbachol addition can be used to stimulate Gq signaling through the M1 receptor included in this kit.

Biosafety

BacMam is the modified baculovirus, *Autographa californica*, AcMNPV. The Baculovirus contained in this kit is pseudotyped to infect mammalian cells, but it cannot replicate in the cells and its genome is silent. 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 Home Page: Menu > Protocol
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