



Membrane Potential Assay Kit (Orange Fluorescence)

Product Information

Cat.No.

Kit-0547

Product Overview

Membrane Potential Assay Kit (Orange Fluorescence) is used for the measurement of membrane potential.

Description

Membrane potential is the difference in voltage between the interior and exterior of a cell. The membrane potential allows a cell to function as a battery, providing power to operate a variety of "molecular devices" embedded in the membrane. In electrically excitable cells such as neurons, membrane potential is used for transmitting signals between different parts of a cell. Opening or closing of ion channels at one point in the membrane produces a local change in the membrane potential, which causes electric current to flow rapidly to other points in the membrane. Ion channels have been identified as important drug discovery targets. The Membrane Potential Assay Kit (Orange Fluorescence) is a homogeneous assay with rapid read time. The kit uses our proprietary long wavelength membrane potential indicator that has enhanced fluorescence upon entering cells. The Membrane Potential Assay Kit (Orange Fluorescence) can detect the membrane potential change due to the opening and closing of the ion channels. It delivers higher throughput than the traditional patch clamp assays.

Usage

For research use only (RUO)

Storage

Keep in freezer Protect from moisture and light Avoid repeated freeze-thaw cycles

Kit Components

Component A: MP Sensor 15 μ L Component B: 10X Assay buffer 1 mL Component C: HHBS (Hanks" buffer with 20 mM HEPES) 9 mL



CREATIVE **BIOMART**[®]
Assay Kit

Membrane Potential Assay Kit (Orange Fluorescence)

Detection method Fluorometric

Compatible Sample Types

Live Cells

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