CREATIVE BIOMART®
Assay Kit

Potassium Ion Channel Assay Kit

Product Information

Cat.No. Kit-2042

Product Overview

The Potassium Ion Channel kit is a no-wash cell based homogenous assay for high throughput screening measurements of potassium channel activity. Using thallium influx as a surrogate indicator of potassium ion channel activity, the assay is based on the activation of a proprietay fluorescent dye with a high affinity for thallium that reports potassium channel activity with a large fluorogenic signal which is propotional to the number of open potassium channels on the cell. The assay can be performed in a convenient 96-well or 384-well microtiter-plate format and easily adapted to automation without a separation step. Its signal can be read by a fluorescence microplate reader at Ex/Em = 488/525 nm (bottom read).

Size

10 plates

Description

Potassium channels are a diverse and ubiquitous family of membrane proteins present in most cell types and control a wide variety of cell functions. Potassium (K+) channels play key role in regulating such processes as heart rate, hormone secretion, neurotransmitter release, electrolyte and water balance, and cell division/proliferation. Given their physiological importance, K+ channels have emerged as targets of drug discovery efforts for such indications as diabetes, epilepsy, pain, immunomodulation, arrhythmia, dementia, and others.

Applications

Potassium channel or transporter activity.

Storage

Keep Component A at -20°C and avoid exposure to light; Component B at 4°C, and Component C at room temperature. All components are stable for 6 months after receipt if stored properly.

Kit Components

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Component A: Thallium Indicator Dye 1 vial (0.9 mg)Component B: NYPR Solution, Probenecid Substitute 1 bottle (5 ml)Component C: 10x KAB Buffer 1 bottle (10 ml)

Detection method FlexStation or Microplate reader

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