CREATIVE BIOMART®
Assay Kit

Chloride Channel Colorimetric Assay Kit

Product Information

Cat.No. Kit-0218

Product Overview

Chloride Channel Assay Kit (Colorimetric) provides a sensitive and robust colorimetric method for studying chloride channels. The assay is based on our proprietary iodide indicator (Iodide Sensor Blue dye) to measure iodide concentration, as low as 30 nM of iodide can be detected. Iodide Sensor Blue dye forms a blue complex with iodide, which has absorption spanning from the UV to 700 nm. Thus a few absorption wavelengths can be used for monitoring the iodide-dependent color change. Chloride Channel Assay Kit (Colorimetric) provides an optimized assay method for monitoring chloride channels. The assay can be performed in a convenient 96-well or 384-well microtiter-plate format.

Size

10 x 96 tests

Description

Chloride channels have a variety of important physiological and cellular functions that include regulation of pH, volume homeostasis, organic solute transport, cell migration, cell proliferation and differentiation. Chloride channels represent valuable drug targets. A number of chronic disease states such as cystic fibrosis and Bartters syndrome are due to defects in chloride channel functions. However, the existing technologies for screening chloride channel modulators are a compromise between throughput, sensitivity and physiological relevance.

Applications

Functional Studies more details

Storage

Store at -20°C.

Kit Components

Components: 10 x 96 tests; 100X Iodide Sensor Enhancer: 1 x 0.5ml; 10X Cell Lysis Buffer: 1 x 5ml; I-

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Loading Buffer: 1 x 100ml; Iodide Sensor Blue dye: 2 x 25ml

Compatible Sample Types

Adherent cells, Suspension cells

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