

Fluo-8 No Wash Calcium Assay kit

Cat. No. Kit-0343 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Fluo-8 No Wash Calcium Assay Kit is a fluorescence-based assay for detecting intracellular calcium mobilization. Cells expressing a GPCR of interest that signals through calcium are pre-loaded with Fluo-8 which can cross the cell membrane. Once inside the cell, the lipophilic blocking groups of Fluo-8 are cleaved by an esterase, resulting in a negatively charged fluorescent dye that stays inside the cell. Its fluorescence is greatly enhanced upon binding to calcium. When cells are stimulated with agonists, the receptor signals the release of intracellular calcium, which significantly increases the fluorescence of Fluo-8. The characteristics of its long wavelength, high sensitivity, and >100 times fluorescence enhancement make Fluo-8 the brightest green calcium indicator available in the market, and it is an ideal tool for the measurement of cellular calcium through HTS screening. The kit provides an optimized assay method for monitoring the G-protein-coupled receptors and calcium channels using HTS instrumentation. The assay can be performed in a convenient 96-well or 384-well microtiter-plate format.

Size

96 tests

Description

This product is intended to be used for monitoring calcium fluctuations in vivo in live cells using the following HTS imaging plate readers: FLIPR, FDSS, BMG NOVOstar, FLEXstation, ViewLux, IN Cell Analyzer or Arrayscan. Readers with an in built pipetter are essential for measuring calcium response accurately due to transient property of the calcium signal. Depending on dose of the agonist, the peak response is few seconds to 20 seconds, so one will need to add the compound by instrument and read the fluorescent signal simultaneously every second for ~1-2 min. If you would

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	like to quantify calcium concentration in vitro using cell extracts, we recommend using Calcium Detection Kit (Colorimetric) or Calcium Quantification Assay Kit .
Applications	Functional Studies more details
Target Species	Reacts with: Human
Storage	Store at -20°C.
Kit Components	Components: 96 tests; 10X Pluronic F127 Plus: 1 x 1ml; Fluo-8: 1 vial; HHBS: 1 x 9ml
Detection method	Fluorescent
Compatible Sample Types	Adherent cells, Suspension cells
Assay time	1h 00m