

Cell Cycle Analysis Kit without Cell Pre-Fixation

Cell Cycle Assay Kit (Red)

1kit [C3851]

for 100 assays

for 100 assays

Cell Cycle Assay Kit (Red) is a kit that allows the observation of cell cycle by staining cells with the enclosed DNA binding dye 7-AAD ($\lambda_{ex, max}$ = 549 nm, $\lambda_{em, max}$ = 648 nm) and the measurement of cell cycle by FACS.

Advantages

New

- Enables significant separation of cells in the G₀/G₁, S, and G₂/M regions even without cell pre-fixation
- · Realizes the process from reagent addition to measurement in as little as 15 minutes
- Compatible with many FACS due to the use of 7-AAD as a staining dye

Kit Components

- 7-AAD
- Cell staining buffer

Chemical Required Outside of the Kit DMSO

Application Example: Cell cycle observation of HeLa cells (a) C3851 Staining (b) PI/RNase Staining 1. Dissolve the included 7-AAD in 100 µL of 3000-2500-DMSO (not included). 2. Combine 1 µL of the 7-AAD solution from 2500 2000step 1 with 200 µL of the included cell 2000 staining buffer. 1500-3. Trypsinize HeLa cells and wash once with Count 1500 PBS. 1000 1000-4. Collect 5.0 x 10⁴ cells in a tube. After 500centrifuging and aspirating the supernatant, 500 add the solution from step 2, and incubate 0 0 for 15 minutes. 50 150 200 250 50 150 250 100 100 200 x10³ 7-AAD 5. Perform cell cycle analysis on a flow 7-AAD cytometer (†). Figure. HeLa cells stained, and analyzed on a flow cytometer.

- + Laser wavelength = 488 nm, Filter wavelength/bandwidth = 700 nm/54 nm
- (a) Cells stained with C3851 (b) Cells stained using the traditional ethanol fixation and PI/RNase method

Both methods were able to cleanly resolve the G_0/G_1 , S, and G₂/M peaks.

Tel

Related Products Nocodazole Thymidine **DMSO**

25mg / 100mg [N1138] 1g / 5g / 25g [T0233] 25g / 500g [D0798]

: 1800 425 7889 / 044-2262 0909

Reference M. Carbonari, Cytom. A 2016, 89, 498. https://doi.org/10.1002/cyto.a.22823

Ordering and Customer Service

TCI AMERICA

:800-423-8616 / 503-283-1681 Tel :888-520-1075 / 503-283-1987 Fax E-mail : Sales-US@TCIchemicals.com

TCI EUROPE N.V. : +32 (0)3 735 07 00 Tel

Fax :+32 (0)3 735 07 01 E-mail : Sales-EU@TCIchemicals.com

TCI Deutschland GmbH Tel

:+49 (0)6196 64053-00 :+49 (0)6196 64053-01 Fax E-mail : Sales-DE@TCIchemicals.com

Tokyo Chemical Industry UK Ltd. Tokyo Chemical Industry (India) Pvt. Ltd. : +44 (0)1865 78 45 60 Tel E-mail : Sales-UK@TCIchemicals.com

梯希爱(上海)化成工业发展有限公司 Tel :800-988-0390 / 021-67121386

TOKYO CHEMICAL INDUSTRY CO., LTD. Tel :+81 (0)3-5640-8878 E-mail : globalbusiness@TCIchemicals.com

E-mail : Sales-IN@TCIchemicals.com

:021-6712-1385 E-mail : Sales-CN@TCIchemicals.com

• Chemicals itemized in this brochure are for research and testing use only. Please avoid use other than by chemically knowledgeable professionals. • Information such as listed products and its specifications and so on are subject to change without prior notice. • The contents may not be reproduced or duplicated in whole or in part without permission of Tokyo Chemical Industry Co., Ltd.

Fax