

For research use only

AcidiFluor ORANGE™-Dextran 10k

Table 1. Product information

Code No.	Material	Amount	Storage	Stability
GC306	AcidiFluor ORANGE™-Dextran 10k	1 mg	Store at -20 °C, desiccate and protected from light	1 year (unopened)

1. Introduction

■ About AcidiFluor ORANGE™-Dextran 10 kDa

AcidiFluor ORANGE™-Dextran 10k is prepared by conjugation of AcidiFluor ORANGE™ to aminodextran. This probe has only weak fluorescence at neutral pH, but shows strong fluorescence in acidic conditions such as in acidic organelles (lysosomes and late endosomes). It can be used to detect endocytosis.

2. Live cell staining protocol

■ Materials Required but not Provided

- Double distilled water
- Hank's Balanced Salt Solution (HBSS)
- Cell culture medium

■ Preparation of Reagent and Cell Staining

1. Dissolve **AcidiFluor ORANGE™-Dextran 10k** to 0.4 mg/mL in cell culture medium or suitable buffer for live cell imaging.
2. Remove the culture medium from cell culture dish and wash twice with medium.
Caution : Glass bottom dish etc. are recommended as cell culture dish, because it shows a low autofluorescence.
3. Add stain solution to the dish and incubate for 4 hours at 37 °C, 5% CO₂.
4. After staining, twice with HBSS buffer. Replace to HBSS buffer and observe the cells using fluorescence microscopy.

■ Fluorescence Imaging

532 nm or 514 nm are suited for excitation wavelength. Cy3, TRITC (Nikon Co. Ltd.) or U-FGWA, U-FGW, U-FGNA, U-FRF (Olympus Co. Ltd.) etc. are usable. The wavelength of maximum emission is around 560 nm.

■ Storage

Probes are forwarded under conditions of N₂ atmosphere, dry and frozen state. After receipting, store under -20 °C, desiccate and protected from light.