



## DAPI staining reagent (ready-to-use)

Product Number: S110101

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### Shipping and Storage

Wet ice transportation; Store at 2-8°C away from light, valid for 12 months.

### Component

Component	S110101	S110102
DAPI staining reagent (ready-to-use)	10mL	100mL

### Description

DAPI is 4', 6-diamidino-2-phenylindole, is a common fluorescent dye, excitation wavelength of 340 nm, emission wavelength of 488 nm, and double-stranded DNA combined with the excitation wavelength of 364 nm, emission wavelength of 454 nm. DAPI can penetrate the intact cell membrane, and the fluorescence can be enhanced by more than 20 times after binding with double-stranded DNA. It is often used in the nuclear staining of living cells, fixed cells and tissue sections, and can detect cell apoptosis. The staining can be observed by fluorescence microscope or flow cytometry.

This product DAPI staining reagent (ready-to-use) concentration of 2µg/mL, can be directly used for cell or tissue nuclear staining. The nucleus of the normal cell was bright blue with no fluorescence in the cytoplasm. When apoptosis occurred, the nuclei were densely stained or fragmented.

### Protocol

1. Cell crawl, cell smear or tissue section were rinsed with PBS for 3 times, 5 min each time.
2. Drop DAPI staining reagent (ready-to-use type) onto the section to completely cover the tissue, and incubate at room temperature for 8-10 min in the dark.
3. Rinse with PBS three times, 5 min each time.
4. Observe under fluorescence microscope or observe under fluorescence microscope after sealing.

### Note

1. All fluorescent dyes have the problem of fluorescence quenching. It is recommended to take photos as soon as possible after dyeing. To slow down fluorescence quenching, an anti-fluorescence quenching sealer can be used to seal the tablets.
2. Wear a lab coat and disposable gloves during operation.