

**Product Name:** DRAQ5 Live Cell DNA Stain

**Catalog Number:** RA20067

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## Basic Information

Product Name	DRAQ5 Live Cell DNA Stain
Size	20 µL/50 µL/200 µL
Storage	-20 °C, protected from light
Shipping	Shipped with ice pack
Validity	12 months

## Experimental procedures

Note: In the experiment, Draq5 is usually used as the last dye to stain, because Draq5 staining does not require other washing steps, so Draq5 can be directly added to the culture medium containing cells for live cell staining.

1. Sodium azide affects Draq 5 staining. Prepare PBS (without calcium, magnesium, or sodium azide) or cell culture medium.
2. Resuspend the cells with PBS or culture medium to control the cell density to  $\leq 4 \times 10^5$  cells/mL. For adherent cells and some tissues, roughly estimate the number of cells.
3. Add the appropriate volume of Draq5 staining solution of appropriate concentration according to Table 1. Draq5 staining solution can be added directly to the surface of tissue or adherent cells, or directly added to fresh culture medium.
4. Mix gently and incubate at room temperature in the dark for 5-30 min. Incubate at 37°C for 1-3 min. For experiments with longer time spans, such as EGFP experiments, Draq5 staining solution should be added to the culture medium during the experiment (usually 0.5-3 h) before the addition of agonists and antagonists, and the concentration should be controlled at 1 µM.

Note: If cells have been stained with other fluorescent dyes before Draq5 staining, please keep the above operation away from light.

5. Stained cells can be directly analyzed without washing or other operations.

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Table 1 Cell number, required volume and final concentration of Draq5

Cell sample preparation		Volume and final concentration of Draq5 added		
Cell number	PBS or culture medium volume	5 $\mu$ M	10 $\mu$ M	20 $\mu$ M
$1 \times 10^6$	2500 $\mu$ L	2.5 $\mu$ L	5 $\mu$ L	10 $\mu$ L
$4 \times 10^5$	1000 $\mu$ L	1 $\mu$ L	2 $\mu$ L	4 $\mu$ L
$2 \times 10^5$	500 $\mu$ L	0.5 $\mu$ L	1 $\mu$ L	2 $\mu$ L
$1 \times 10^5$	250 $\mu$ L	0.25 $\mu$ L	0.5 $\mu$ L	1 $\mu$ L
$5 \times 10^4$	125 $\mu$ L	0.13 $\mu$ L	0.25 $\mu$ L	0.5 $\mu$ L

DRAQ5 excitation/emission wavelength: 647/681 nm

**Note: This reagent is for scientific research use only!**