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DRAQ5

Cat. No.:	HY-D1742
CAS No.:	254098-36-7
Molecular Weight:	412.5
Target:	Fluorescent Dye; DNA Stain
Pathway:	Others; Cell Cycle/DNA Damage
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

DRAQ5

BIOLOGICAL ACTIVITY

Description	DRAQ5 is a novel cell permeant and far red-fluorescing DNA probe. DRAQ5 excites at a wavelength of 647 nm, close to the Ex, and produces a fluorescence spectrum extending from 665 nm out to beyond 780 nm wavelengths. DRAQ5 fluorescence reflects cellular DNA content. DRAQ5 can be used in combination with FITC and RPE-labelled antibodies, without the need for fluorescence compensation ^[1] .
In Vitro	<p>Mammalian cell in full culture medium staining methods^[2]:</p> <p>(1) Cell planking: Digestive separation of cells and resuspend in complete medium to a concentration of $2-4 \times 10^5$ cells/ml. Note: Attached cell cultures (e.g., coverslip cultures or chambered wells) can be stained in a 1-2-ml staining volume overlayering a 4-cm² surface area.</p> <p>(2) Prepare staining solution: Add 4 µl of 5 mM DRAQ5 acidified stock per ml culture medium (20 µM final). Note: Nuclear discrimination is achievable at 2.5 to 5 µM, and it is unlikely that concentrations >30 µM would be required.</p> <p>(3) Fluorescence staining: Incubate 5 to 15 min at 37°C. Note: Overstaining cannot occur.</p> <p>(4) Wash (optional): Centrifuge cells 3 to 5 min at $800 \times g$, 37°C. Discard supernatant and resuspend in complete medium with 10 mM HEPES (HY-D0857) at 4×10^5 cells/ml.</p> <p>(5) For flow cytometry: Use conventional pulse analysis for doublet discrimination and analyze parameters using appropriate software.</p> <p>(6) For laser scanning microscopy: Collect fluorescence images using a 695 nm long-pass filter.</p> <p>Fixed cells staining methods^[2]:</p> <p>(1) Fixed cells: Use 4% paraformaldehyde in PBS for 30 min with resuspension in an aqueous buffer (e.g., PBS).</p> <p>(2) Fluorescence staining: similar concentrations of dye and similar incubation conditions can be used as for live cells.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Smith PJ, et al. A novel cell permeant and far red-fluorescing DNA probe, DRAQ5, for blood cell discrimination by flow cytometry. J Immunol Methods. 1999 Oct 29;229(1-2):131-9.

[2]. Smith PJ, et al. DRAQ5 labeling of nuclear DNA in live and fixed cells. Curr Protoc Cytom. 2004 May;Chapter 7:Unit 7.25.

Caution: Product has not been fully validated for medical applications. For research use only.

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