

DRAQ5

Chemical Properties

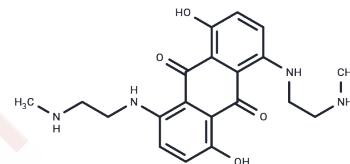
CAS No. : 254098-36-7

Formula:

Molecular Weight: 412.5

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	DRAQ5 is a novel, cell-permeant, far red-fluorescing DNA probe that excites at 647 nm and produces a fluorescence spectrum from 665 nm to beyond 780 nm, reflecting cellular DNA content. DRAQ5 can be used with FITC and RPE-labelled antibodies without requiring fluorescence compensation [1].
Targets(IC50)	Others, Autophagy
In vitro	<p>Mammalian cell full culture staining method [2]: (1) Cell plating: Digest and isolate cells, then resuspend in complete medium to a concentration of $2-4 \times 10^5$/ml. Note: Adherent cells (such as those on coverslips or chambers) can be stained in situ, using 1-2 ml of dye per 4 cm^2 area. (2) Prepare staining solution: Add $4 \mu\text{l}$ of 5 mM dye stock solution per ml of medium, achieving a final concentration of $20 \mu\text{M}$. Note: Nuclear staining is detectable at $2.5-5 \mu\text{M}$, generally not exceeding $30 \mu\text{M}$. (3) Fluorescent staining: Incubate at 37°C for 5-15 minutes. Caution: Avoid overstaining. (4) Washing (optional): Centrifuge at 37°C, 800 g, for 3-5 minutes, discard the supernatant, and resuspend cells at 4×10^5/ml in complete medium containing 10 mM HEPES. (5) Flow cytometry: Perform dual recognition using standard pulse analysis and appropriate software to analyze parameters. (6) Laser scanning microscopy: Collect fluorescent images using a 695 nm filter. Fixed cell staining method [2]: (1) Fix cells: Use 4% paraformaldehyde in PBS for 30 minutes and resuspend in a buffer (e.g., PBS). (2) Fluorescent staining: Employ dye concentrations and conditions similar to those for live cells.</p> <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4242 mL	12.1212 mL	24.2424 mL
5 mM	0.4848 mL	2.4242 mL	4.8485 mL
10 mM	0.2424 mL	1.2121 mL	2.4242 mL
50 mM	0.0485 mL	0.2424 mL	0.4848 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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