



DNA green

P033  
1  $\mu\text{mol}$

- **Known Property** DNA selective probe
- **Application** Immunofluorescence
- **Cell selectivity mechanism:** DOLD
- **Storage**
  - ① Delivery: Room Temperature
  - ② Dried compound: 4 °C or -20 °C
  - ③ Compound solution: 4 °C or -20 °C

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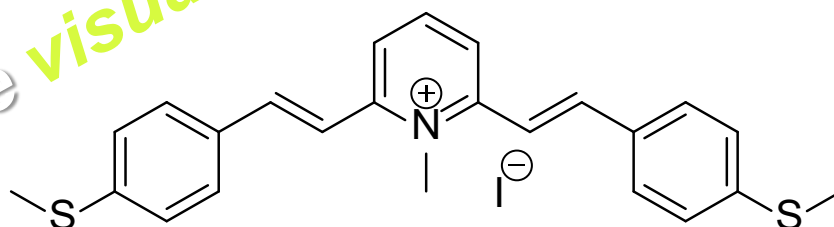
## General Use Guide

More than 1/100 dilution of 10mM of DMSO stock solution is essential

For biomedical use to avoid DMSO concentration higher than 1%.

Working concentrations for specific applications should be determined by the investigator.

It is recommended to use up the buffer diluted solution within one day. The compound may be decomposed or precipitated out from buffer solution.



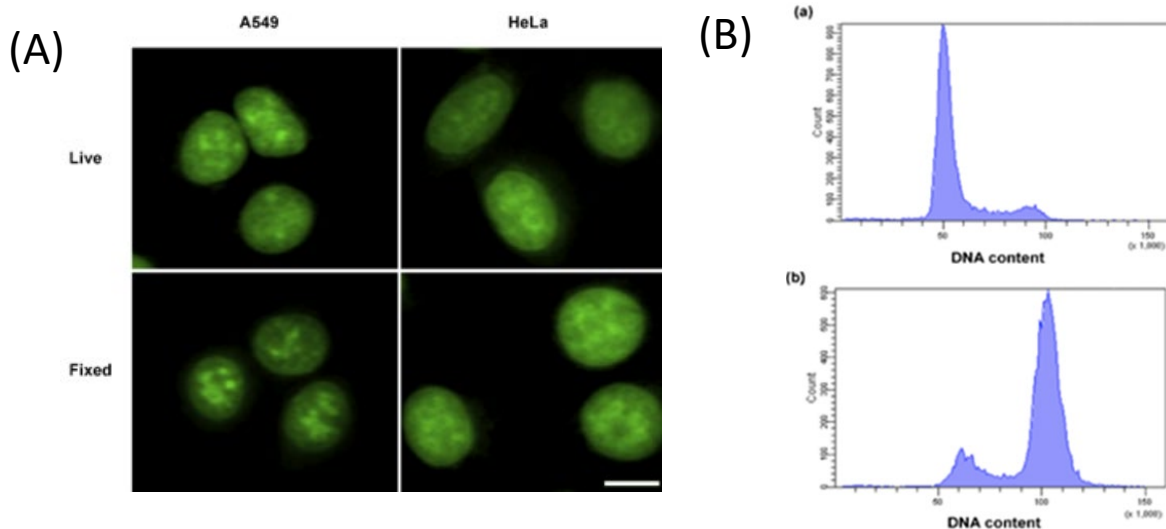
Molecular Weight

517.5 ( $\text{C}_{24}\text{H}_{24}\text{INS}_2$ )

$\lambda_{\text{ex}} / \lambda_{\text{em}}$

420 / 540 nm

DNA-selective probe, **DNA green**, capable of cell imaging, and also DNA quantification in flow cytometry. It is noteworthy that **DNA green** works both in live and fixed cells, which allows various experimental options in cellular imaging. As a practical green DNA staining dye, **DNA green** provides broader color options for biological imaging by a simple chemical method.



**(A) DNA green stains of Live or Fixed cells.** Live and fixed cell staining of JN-C61 in A549 and HeLa cell lines. The final concentration of JN-C61 was 5  $\mu\text{M}$ . The images were taken under FITC channel. **(B) Cell Cycle Analysis.** A549 cell line was used in this experiment. The final concentration of JN-C61 was 25  $\mu\text{M}$ . The cells were compared between (a) normal cells, and (b) Nocodazole-inhibited cells

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## Reference

1. **Discovery of a Green DNA Probe for Live-Cell Imaging**, Feng, S.; Kim, Y. K.; Yang, Q.; Chang, Y. T.\* Chem. Commun., 2010, 46, 436-438.