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## LDS 751, far-red fluorescent nucleic acid stain

<http://www.lumiprobe.com/p/lDs-751-nucleic-acid-stain>

LDS 751 is a cell-permeant fluorescent nucleic acid stain used for DNA detection in live and fixed cells. With its long-wavelength emission (~712 nm) and compatibility with 488 nm laser lines, it enables precise multicolor flow cytometry and high-resolution cellular imaging. This dye exhibits a 20-fold fluorescence enhancement upon binding to dsDNA, making it a choice alternative to [LUCS® 5](#) for complex assays.

In live cells, LDS 751 preferentially binds polarized mitochondrial membranes over nuclei; therefore, it is critical to consider this when interpreting the organelle-specificity of the signal.

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### General properties

Appearance: dark violet solid

Molecular weight: 471.99

CAS number: 181885-68-7

Molecular formula:  $C_{25}H_{30}ClN_3O_4$

Solubility: DMSO

Quality control: NMR  $^1H$  and HPLC-MS (95+%)

Storage conditions: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

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