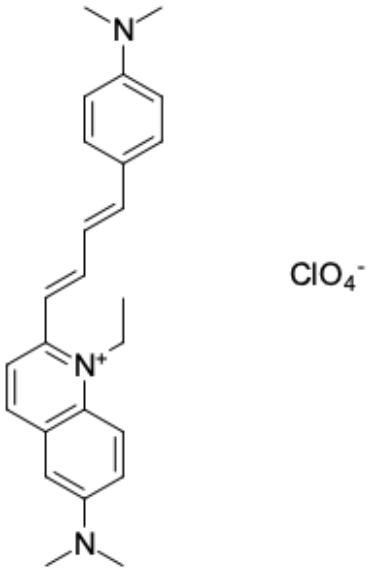
Lumiprobe Corporation
115 Airport Dr Suite 160
Westminster, Maryland 21157
USA
Phone: +1 888 973 6353
Fax: +1 888 973 6354
Email: order@lumiprobe.com

LDS 751, far-red fluorescent nucleic acid stain

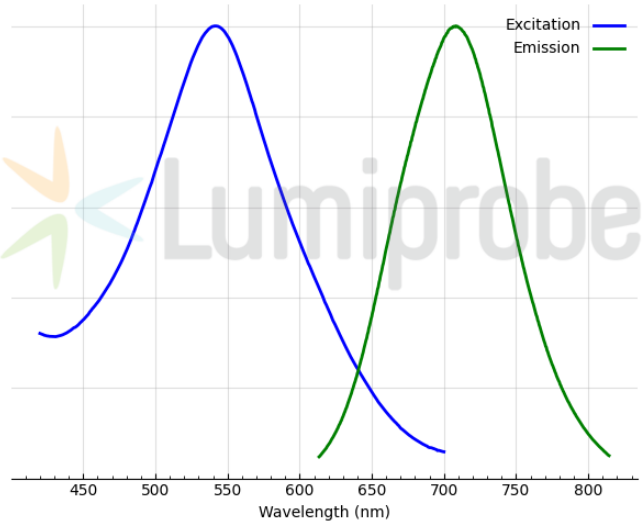
http://www.lumiprobe.com/p/lds-751-nucleic-acid-stain

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.



Structure of LDS 751



Excitation and emission spectra of dsDNA complex with LDS 751

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 receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.

Spectral properties

Excitation/absorption maximum, nm:	541
Emission maximum, nm:	708