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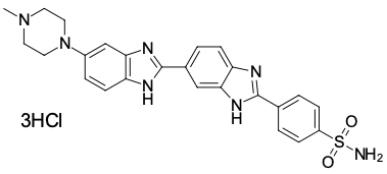
Hoechst S769121 (Nuclear Yellow), yellow fluorescent nucleic acid stain

http://www.lumiprobe.com/p/hoechst-s769121-nuclear-yellow

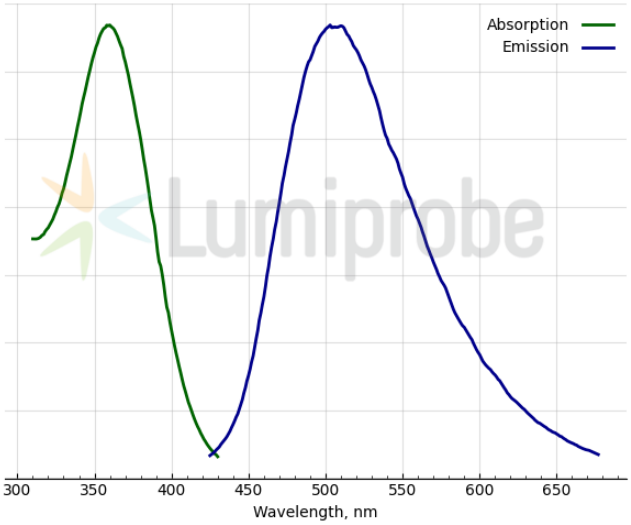
Hoechst S769121 (Nuclear Yellow) is a cell-permeant yellow-emitting fluorescent dye that binds strongly to adenine-thymine-rich regions in the minor groove of double-stranded DNA. Although Nuclear Yellow can bind to all nucleic acids, AT-rich dsDNA strands enhance its fluorescence considerably.

Nuclear Yellow is used in fluorescence microscopy, fluorometry, and flow cytometry to stain and measure DNA content in live and fixed cells. It is commonly used in combination with retrograde tracers such as True Blue for two-color neuronal imaging. Nuclear Yellow can also be used to photoconvert diaminobenzidine (DAB) into an electron-dense reaction product for light and electron microscopy applications.

The commonly used dye concentration to stain bacteria or eukaryote cells is 0.1–10 µg/mL.



Structure of Hoechst S769121 (Nuclear Yellow)



Absorption and emission spectra of Hoechst S769121 (DNA-dye complex)

General properties

Appearance:	light brown solid
Molecular weight:	596.97
CAS number:	74681-68-8
Molecular formula:	$C_{25}H_{28}Cl_3N_7O_2S$
Solubility:	water, 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:	360 (complex)
Emission maximum, nm:	505 (complex)