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Green Fluorescent Nissl Stain

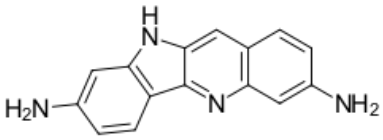
http://www.lumiprobe.com/p/green-fluorescent-nissl-stain

Nissl staining is a widely used histological method for visualizing the morphology and cytoarchitecture of nervous tissue. The technique is based on the selective staining of Nissl substance, a structure rich in ribosomal RNA within the rough endoplasmic reticulum of neurons. As a result, neuronal cell bodies are labeled much more intensely than surrounding cells, facilitating the identification of neuronal populations and the assessment of neural tissue organization.

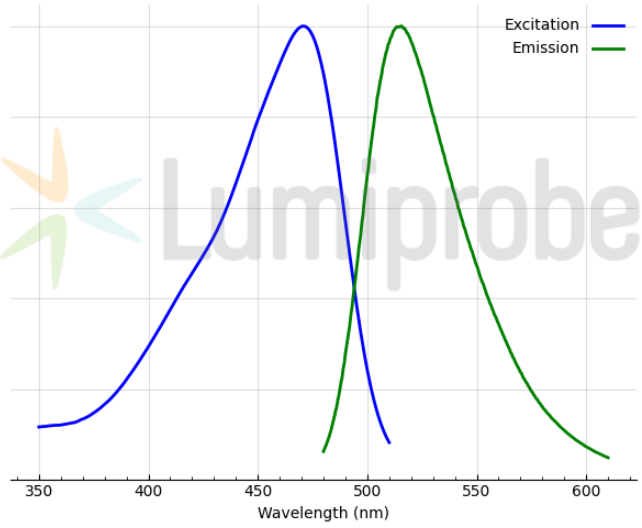
We offer highly concentrated (1,000×) Fluorescent Nissl Stains with different spectral properties.

Green Fluorescent Nissl Stain (also known as Fluoro Nissl Green) is a cell-impermeant fluorescent dye that exhibits low background fluorescence in solution and becomes highly fluorescent upon binding to nucleic acids. The dye effectively labels RNA-rich neuronal cell bodies in fixed tissue sections, producing bright green fluorescence with excitation and emission maxima at 471 nm and 515 nm, respectively.

The spectral properties of Green Fluorescent Nissl Stain make it compatible with multicolor fluorescence imaging. Its emission is well separated from blue fluorophores such as DAPI and Hoechst dyes and from orange- and red-emitting probes including AF 594, Cyanine3, Cyanine5, and related fluorophores, allowing flexible integration into complex imaging experiments.



Structure of Green Fluorescent Nissl Stain



Excitation and emission spectra of Green Fluorescent Nissl Stain

General properties

Appearance:	yellow solution
Molecular weight:	248.29
CAS number:	161622-27-1
Molecular formula:	$C_{15}H_{12}N_4$
IUPAC name:	10H-Indolo[2-b]quinoline-3,8-diamine
Quality control:	NMR ^{1}H 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:	471
Emission maximum, nm:	515