

Lucifer Yellow CH

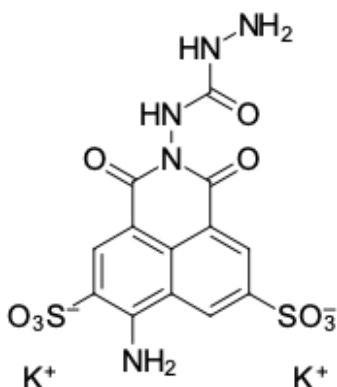
<http://www.lumiprobe.com/p/lucifer-yellow-ch>

Lucifer Yellow CH is a highly sensitive yellow fluorescent dye widely used in neurobiology, cytology, and molecular biology for cell tracing, studying cell-cell interactions, and visualizing neurons. The dye is suitable for labeling both live and fixed preparations: it has low cytotoxicity, is retained in cells after fixation (e.g., with paraformaldehyde), and is compatible with most immunochemistry protocols. Lucifer Yellow CH has a high quantum yield, is resistant to photobleaching, and is, therefore, ideal for confocal and fluorescence microscopy.

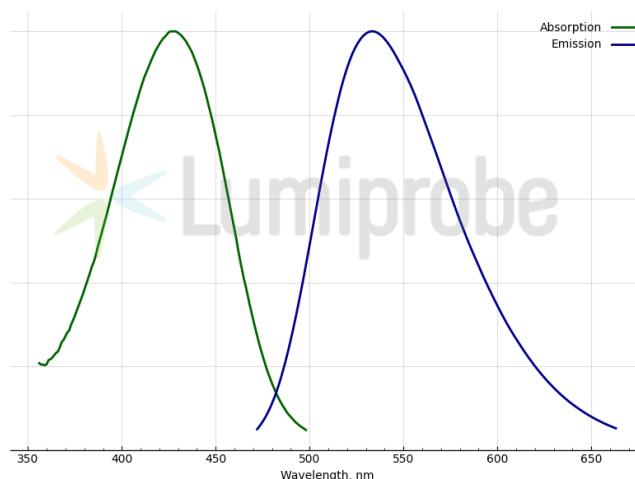
The main dye application:

- Neuronal tracking: Dye injection allows for tracking the morphology of axons and dendrites *in vivo* and *in vitro*.
- Iontophoresis: Used to label individual cells in electrophysiological studies.
- Transfection: Compatible with microinjection and electroporation methods.

Working dye concentration: 1-5% (depending on protocol).



Structure of Lucifer Yellow CH



Absorption and emission spectra of Lucifer Yellow CH

General properties

Appearance:	ocher powder
Molecular weight:	521.57
CAS number:	71206-95-6 (dipotassium salt); 67769-47-5 (dilithium salt)
Molecular formula:	C ₁₃ H ₉ K ₂ N ₅ O ₉ S ₂
Solubility:	good in water
Quality control:	NMR ¹ H 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.
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:	428
Emission maximum, nm:	533