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

LumiTracker® Lyso Blue

http://www.lumiprobe.com/p/lumitracker-lyso-blue-dnd-22

LumiTracker® Lyso Blue is a blue-emitting dye that selectively accumulates in cellular organelles with acidic contents. It is widely used to stain live lysosomes that maintain a low internal pH by an ATP-dependent proton pump providing optimal conditions for the activity of digestive enzymes.

LumiTracker® Lyso Blue contains several amino groups that act as a weak base. At neutral pH, they are not completely protonated, and the dye molecule remains relatively neutral, thus allowing better cell membrane permeability. Getting into lysosomes with an acidic pH, the dye is likely to become protonated and thus remains in the organelle with a low pH.

LumiTracker® Lyso Blue exhibits an absorption maximum at 375 nm and an emission maximum at 425 nm. We also offer LumiTracker® Lyso Green and LumiTracker® Lyso Red for lysosome imaging in the green and red channels.

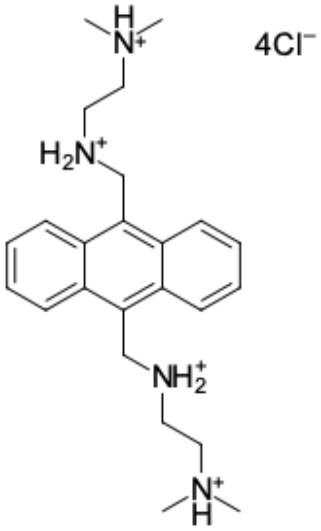
LumiTracker® Lyso Blue is supplied as a 1 mM solution in DMSO.

Usage

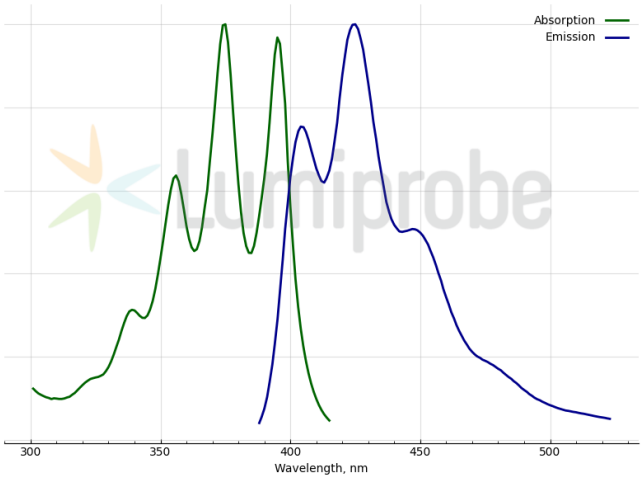
Working concentration: 75–500 nM.*

Staining: 30 minutes at 37 °C in 1× PBS (just before visualization).

**Depending on the cell line, working concentration or incubating time may be changed*



Structure of LumiTracker® Lyso Blue



Absorption and emission spectra of LumiTracker® Lyso Blue

General properties	
Appearance:	yellow liquid
Molecular weight:	524.41
CAS number:	215247-93-1
Molecular formula:	$C_{24}H_{38}Cl_4N_4$
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:	375
Emission maximum, nm:	425