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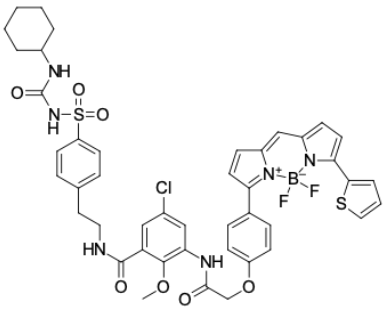
LumiTracker® ER Red

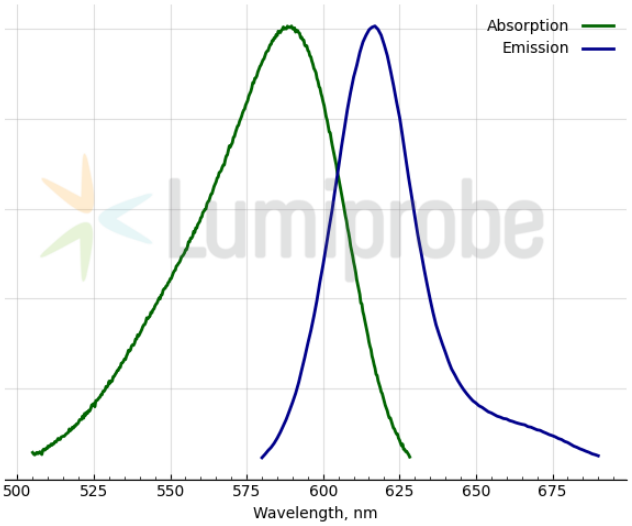
http://www.lumiprobe.com/p/er-tracker-red

LumiTracker ER Red (also known as ER-Tracker™ Red) is a cell-permeant, highly selective for the endoplasmic reticulum (ER) stain for live cell imaging. LumiTracker ER Red is a derivative of red-fluorescent BDP TR dye coupled with Glibenclamide (Glyburide). Glibenclamide binds to the sulphonylurea (SUR) receptors of ATP-sensitive potassium channels (K_{ATP}), which are prominent on the endoplasmic reticulum. The staining is partially retained after fixation with formaldehyde. LumiTracker ER Red is not suitable for staining cells after fixation.

Note that the pharmacological activity of glibenclamide could potentially affect ER function. Variable expression of sulphonylurea receptors in some specialized cell types may result in non-ER labeling.



Structure of LumiTracker ER Red



Absorption and emission spectra of LumiTracker ER Red

General properties

Appearance:	dark-violet powder
Molecular weight:	915.25
Molecular formula:	$C_{44}H_{42}BClF_2N_6O_7S_2$
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. Avoid prolonged exposure to light.
Legal statement:	Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes.

Spectral properties

Excitation/absorption maximum, nm:	589
Emission maximum, nm:	617

ER-Tracker™ is the trademark of Molecular Probes Inc.