

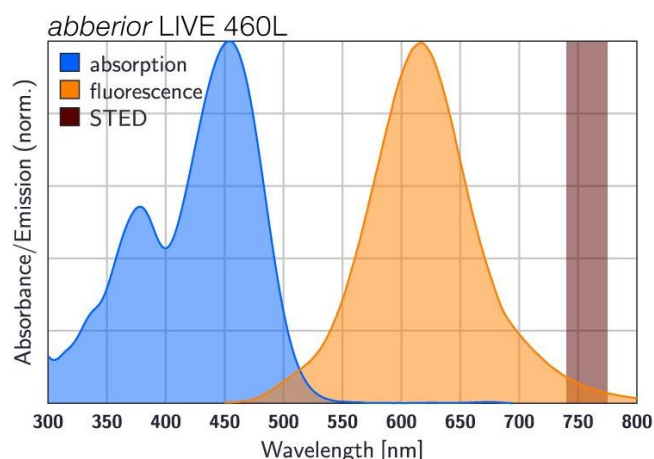
abberior LIVE 460L, carboxylic acid, 500 µg

Item number

LV460L-0001-500UG

Description

abberior LIVE 460L is a long Stokes-shift dye optimized for live-cell STED and confocal microscopy. It shows a large Stokes-shift of approx. 162 nm and has a broad excitation and emission band: The dye is excited most efficiently in the range of 440 - 490 nm and emits between 560 - 680 nm. For STED microscopy, abberior LIVE 460L can be used with STED laser wavelengths between 750 - 800 nm. All these features making abberior LIVE 460L the optimal dye for multicolor live-cell STED experiments, in particular as 3rd color in combination with abberior LIVE 550 and LIVE 610.



Organic fluorescent dye for live-cell microscopy. abberior LIVE 460L carboxylic acid is identical to abberior STAR 460L carboxylic acid.

Properties

Absorption	λ_{ex} [nm]	455
Extinction Coefficient	ϵ_{max} [M ⁻¹ cm ⁻¹]	28000
Emission	λ_{em} [nm]	617
Quantum Efficiency	η_{fl} [%]	17
STED min.	$\lambda_{\text{STED min}}$ [nm]	750
STED max.	$\lambda_{\text{STED max}}$ [nm]	800
Fluorescence Lifetime	τ_{fl} [ns]	2
Correction Factor 260	CF ₂₆₀	0.55
Correction Factor 280	CF ₂₈₀	0.33
Charge	Δq	0
Molecular Weight	MW [g/mol]	437.7
Derivative/Conjugate	Carboxylic acid	

Photophysical properties were measured for carboxylic acid in PBS pH 7.4.



Hans-Adolf-Krebs-Weg 6
37077 Göttingen, Germany
E-Mail: support@abberior.com
Website: abberior.rocks

Storage

The product contains a vial of lyophilized powder and is shipped at room temperature. Upon arrival, please store the product at -20 °C. For proper long-term storage up to one year, protect the product from light and moisture.

- Our abberior carboxylic acid derivates come as a freeze-dried powder and should be dissolved in DMF, DMSO, or acetonitrile.