Hans-Adolf-Krebs-Weg 6
37077 Göttingen, Germany
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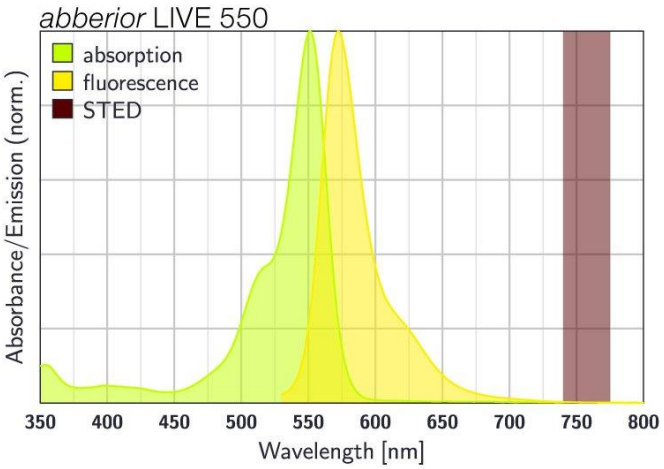
abberior LIVE 550, carboxylic acid, 500 µg

Item number

LV550-0001-500UG

Description

abberior LIVE 550 is a member of a new class of fluorescent dyes for live-cell imaging exclusively offered by abberior. This dye is highly photostable and bright orange fluorescent dye, which can be effectively excited with a 561 nm laser. For STED, a depletion wavelength between 650 - 775 nm is recommended. Due to the unique isomeric structure the favorited conformation is stabilized, leading to an enhanced cell permeability of the dye. abberior LIVE 550 can therefore be used in very low nanomolar concentration, reducing background and cytotoxicity effectively, allowing long-term STED and confocal imaging of living cells or tissue. Our abberior LIVE 550 is the ideal partner for abberior LIVE 610 to obtain optimal 2 color live-cell STED and confocal results.



Organic fluorescent dye for microscopy.

Properties

Absorption	λ_{ex} [nm]	551
Extinction Coefficient	ε_{max} [$M^{-1}cm^{-1}$]	75000
Emission	λ_{em} [nm]	573
Quantum Efficiency	η_{fl} [%]	41
STED min.	$\lambda_{STED\ min}$ [nm]	650
STED max.	$\lambda_{STED\ max}$ [nm]	775
Fluorescence Lifetime	τ_{fl} [ns]	2
Charge	Δq	0
Molecular Weight	MW [g/mol]	430.5
Derivative/Conjugate		Carboxylic acid

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

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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.