

abberior LIVE 510, carboxylic acid, 1 mg

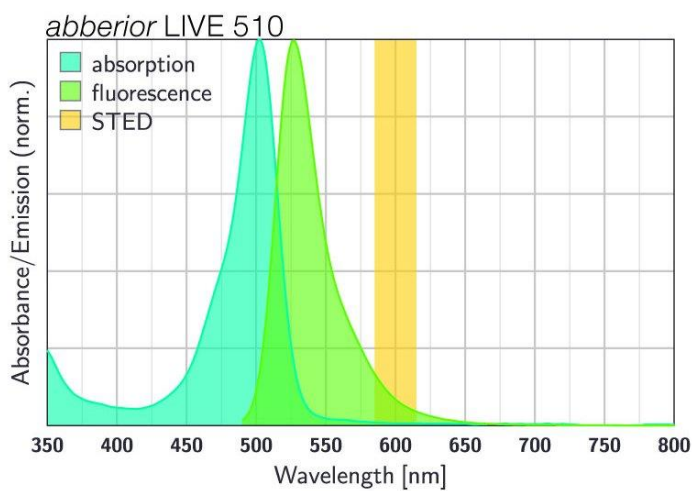
Item number

LV510-0001-1MG

Description

abberior LIVE 510 is a dye designed for live-cell STED and confocal microscopy. Its molecular structure renders the dye strongly fluorogenic and facilitates its ability to overcome cell membranes. It can be optimally excited between 485 - 500 nm. For STED, a depletion wavelength between 590 - 610 nm is recommended. Conjugates of abberior LIVE 510 enable live-cell labeling of proteins and other biological structures e.g. actin or tubulin cytoskeleton.

Organic fluorescent dye for microscopy.



Properties

Absorption	λ_{ex} [nm]	498
Extinction Coefficient	ϵ_{max} [M ⁻¹ cm ⁻¹]	53000
Emission	λ_{em} [nm]	529
Quantum Efficiency	η_q [%]	94
STED min.	$\lambda_{STED\ min}$ [nm]	590
STED max.	$\lambda_{STED\ max}$ [nm]	610
Fluorescence Lifetime	τ_f [ns]	3.8
Correction Factor 260	CF ₂₆₀	0.26
Correction Factor 280	CF ₂₈₀	0.18
Charge	Δq	0
Molecular Weight	MW [g/mol]	574.4
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.