

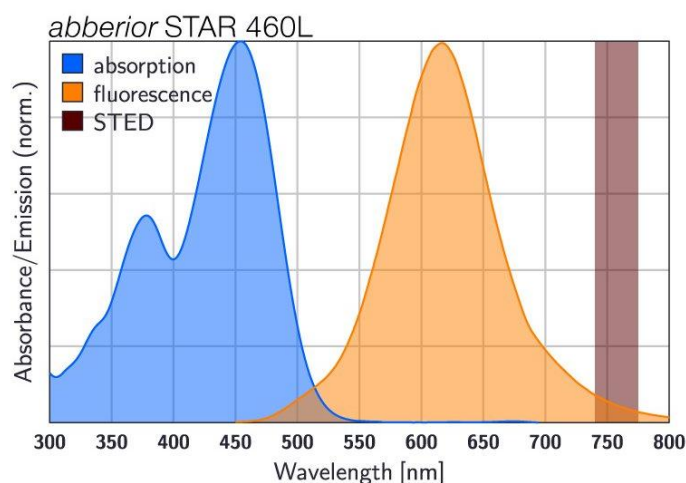
abberior STAR 460L, carboxylic acid, 500 µg

Item number

ST460L-0001-500UG

Description

abberior STAR 460L is a long Stokes-shift dye optimized for 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 STAR 460L can be used with STED laser wavelengths between 750 - 800 nm. All these features making abberior STAR 460L the optimal dye for multicolor STED experiments, in particular as 3rd color in combination with abberior STAR ORANGE and STAR RED.



Organic fluorescent dye for microscopy.

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.