

abberior STAR 635, streptavidin, 1 mg

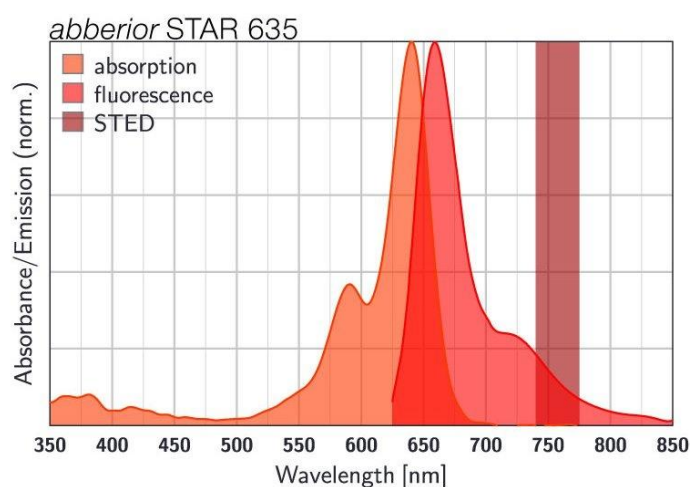
Item number

ST635-0120-1MG

Description

abberior STAR 635 is a dye developed for STED and confocal imaging in the red spectral region. It features exceptional photostability, very high brightness and low background labeling. abberior STAR 635 can be excited with lasers at wavelength between 630 - 650 nm. For STED, a depletion wavelength around 750 - 800 nm is recommended. Our abberior STAR 635 can substitute dyes like ATTO® 647N, Alexa Fluor® 647, or Cy5®. Best results are obtained with freshly prepared samples.

Streptavidin is suitable for fluorescence labeling of biotin conjugated molecules.



Properties

Absorption	λ_{ex} [nm]	635
Extinction Coefficient	ϵ_{max} [M ⁻¹ cm ⁻¹]	110000
Emission	λ_{em} [nm]	655
Quantum Efficiency	η_{fl} [%]	88
STED min.	$\lambda_{\text{STED min}}$ [nm]	750
STED max.	$\lambda_{\text{STED max}}$ [nm]	800
Fluorescence Lifetime	τ_{fl} [ns]	2.8
Correction Factor 260	CF ₂₆₀	0.26
Correction Factor 280	CF ₂₈₀	0.38
Charge	Δq	0
Derivative/Conjugate	Streptavidin	

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



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Storage

The product contains a vial of buffered solution and is shipped at room temperature. Upon arrival, the product can be stored at 4 °C for up to one month. Please split the product into smaller aliquots and store these at -20 °C to -80 °C for long-term storage of up to one year. Protect the conjugate from direct light exposure and avoid repeated freeze-thaw cycles.