

abberior STAR 635, phalloidin, 20 µg

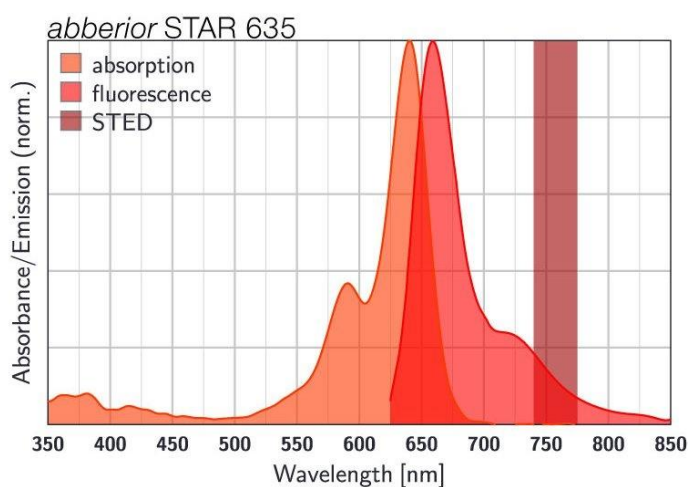
Item number

ST635-0100-20UG

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.

Fluorescent dye conjugate of phalloidin are used to stain F-actin. The high specificity of phalloidin offers significant advantages over antibodies for actin labeling.



Properties

Absorption	λ_{ex} [nm]	635
Extinction Coefficient	ϵ_{max} [M ⁻¹ cm ⁻¹]	110000
Emission	λ_{em} [nm]	655
Quantum Efficiency	η_{f} [%]	88
STED min.	$\lambda_{\text{STED min}}$ [nm]	750
STED max.	$\lambda_{\text{STED max}}$ [nm]	800
Fluorescence Lifetime	τ_{f} [ns]	2.8
Correction Factor 260	CF ₂₆₀	0.26
Correction Factor 280	CF ₂₈₀	0.38
Charge	Δq	0
Molecular Weight	MW [g/mol]	1665.9
Derivative/Conjugate	Phalloidin	

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



Storage

Our *abberior phalloidin* probes are freeze-dried and shipped at room temperature. Upon arrival, the product can be stored for up to one year at -20°C . Shortly before the staining procedure dissolve the probe in DMF or DMSO. Once dissolved the stock solutions should be kept at -20°C , protected from light and moisture.

- Depending on solvent quality the shelf-life of the stock solutions might be significantly reduced compared to the phalloidin conjugate in its solid form. Repeated freeze-thaw cycles can be avoided by splitting the dissolved compound into smaller aliquots.