

abberior STAR 635, carboxylic acid, 1 mg

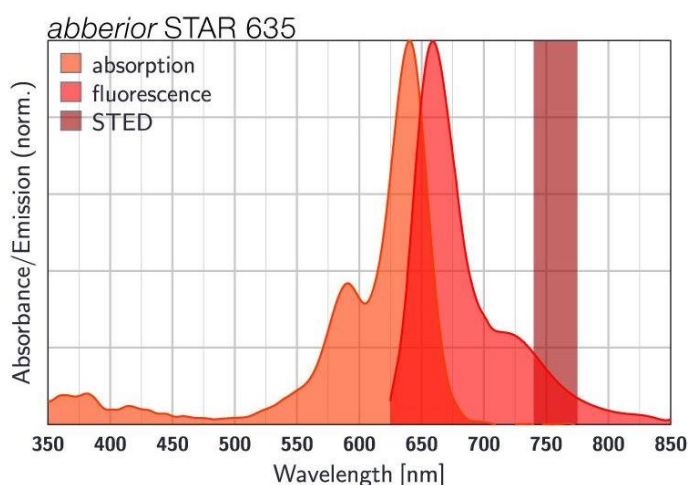
Item number

ST635-0001-1MG

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.

Organic fluorescent dye for microscopy.



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
Molecular Weight	MW [g/mol]	896
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